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UNIVERSITY OF ILLINOIS  
Agricultural Experiment Station

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BULLETIN No. 208

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CLIMATE OF ILLINOIS

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By J. G. MOSIER



URBANA, ILLINOIS, APRIL, 1918

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(M. Lorenz, Maker)

RELIEF MAP OF ILLINOIS



# CLIMATE OF ILLINOIS

By J. G. MOSIER, CHIEF IN SOIL PHYSICS

Illinois is so situated that its northern boundary is  $21\frac{1}{2}$  degrees south of the center of the north temperate zone, while its southern extremity is only  $13\frac{1}{2}$  degrees from the torrid zone. It extends over  $51\frac{1}{2}$  degrees of latitude, with a difference of about 2 degrees in mean temperature for each degree in latitude. The altitude varies from 310 feet in the extreme southern part of the state to 1,257 feet in Jo Daviess county, the highest point in the state. The Ozark Ridge, extending east and west across the state near the southern end, reaches an altitude of 1,046 feet in the northwestern part of Pope county. About 70 percent of the state lies between 500 and 700 feet above sea level.

The state is entirely within the belt of prevailing westerly winds with their accompanying cyclones, or "lows," and anticyclones, or "highs." To these "lows" and "highs," as they are commonly designated by the forecaster and on the weather map, is due the ordinary weather of the state. As our weather changes are almost entirely due to the passage of cyclonic storms across the country, their importance requires some notice here.

## WEATHER CHANGES PRODUCED BY CYCLONES, OR LOWS, AND ANTICYCLONES, OR HIGHS

A cyclone, or low, is a storm having an atmospheric pressure lower than the normal due to the rising of the air in the storm area. Since a cyclone is a whirling storm, or whirlwind, the wind does not blow directly in toward the center of the low, but somewhat spirally and counter-clockwise. As the low passes eastward, the wind changes to the northwest, either thru the southwest or the northeast, depending upon the part of the low passing over the locality. If the center of the low is to the north, then the wind shifts to the south, the southwest, and finally to the northwest. If the center of the low is to the south, the wind shifts to the northwest thru the northeast and north. In either case, when the wind becomes northwesterly the temperature becomes lower. When the center of the low passes over a locality, there is usually a sudden change of the wind to a westerly or northwesterly direction, with an accompanying change in temperature. Clearing weather usually follows the passage of the center, and the rear of the low is marked by cooler, clear weather.









FIG. 3.—MAP OF ILLINOIS SHOWING DIVISION INTO DISTRICTS



By knowing the direction and the rate of movement of these cyclones, one may plan his work so as to avoid being taken unawares by many of these storms. The daily weather map or even the daily paper will give valuable information in regard to their movement. If rain is predicted within twenty-four hours for Kansas, Nebraska, Missouri, or Iowa, the chances are that within thirty-six hours the same condition will prevail in Illinois.

#### DISTRICTS OF THE STATE

For convenience the state has been divided into five districts as follows:

(1) Extreme northern district, including the tier of counties along the Wisconsin line.

(2) Central-northern district, including the counties between the extreme northern division and an irregular line extending across the state on the southern lines of Henderson, Warren, Knox, Peoria, Woodford, Livingston, and Iroquois counties (crossing Ford).

(3) Central district, including the counties between the southern boundary of the central-northern district and a line on the south boundary of Jersey, Macoupin, Montgomery, Shelby, Cumberland, and Clark counties.

(4) Central-southern district, including the counties south of the central district and north of the Ozark Ridge.

(5) Extreme southern district, including the seven most southern counties.

The extreme northern district includes counties that are on the border of the corn belt. The central-northern and the central divisions include the corn belt proper, while the central-southern includes practically all that portion of the state in the lower Illinoisan glaciation. (See general soil map of Illinois in Bulletin 193). The seven southern counties are unglaciated and form a distinct soil and physiographic region by themselves.

## RAINFALL

The primary cause for precipitation is the condensation of vapor in the atmosphere as a result of the lowering of the temperature. This change in temperature may be brought about by a current of moist air rising to a higher altitude, by a warm vapor-laden air current meeting a cold one, or by movement of the air from warmer to cooler regions, as from tropical to temperate regions. The amount of precipitation depends upon the extent of the cooling and the amount of vapor carried in the air. In general, the amount of precipitation diminishes as distance from the equator increases. Many local variations occur, however, that are due to differences of altitude, direction of wind, etc. These variations may produce extremely heavy rainfall over small areas and at certain seasons.

The distribution of the rainfall by months varies with the different sections of the state, as shown by the diagram on page 21. In the extreme northern and central-northern districts the six months April to September form the period of greatest rainfall, while in the extreme southern district the precipitation is more evenly distributed, with August, September, and October as the driest months.

### RELATION OF RAINFALL TO CROPS

Two factors of climate are of special importance in the growth of crops. These are precipitation and temperature. The supply of moisture for the soil and the crop is derived entirely from precipitation either as snow or as rain. No large excess is needed, and we are frequently surprised at the size of crops that may be grown with a small, well-distributed rainfall. From 300 to 500 pounds of water are required by the plant in order that it may produce one pound of dry matter. A 100-bushel crop of corn requires for its production about 16 inches of water, or about 18 tons for each bushel of shelled corn weighing 56 pounds. A 100-bushel crop of oats requires 18 inches, or 20 tons for a bushel of grain, and a ton of clover hay requires about 450 tons of water.

There is sufficient rainfall almost every year to produce maximum crops. The difficulty is with its distribution. The average yearly rainfall for the state is 37.98 inches, or more than 3 inches per month, but during the ten years from 1906 to 1915 at the University of Illinois there have been twenty-five periods of 20 days or longer in which the rainfall has been less than one inch. Of these dry periods, six have been 30 days or more in length. The injury resulting from the irregularity in the distribution of the rainfall may be prevented to some extent by drainage, tillage, increasing and maintaining the organic matter of soils, and keeping the soils well supplied with plant food.



This uneven distribution of the rainfall is a sufficient incentive to cause the farmer to take every precaution for storing and holding the moisture in the soil before the crop is planted by preparing a deep, mellow seed bed, or for carrying off quickly excessive amounts of rain. Corn should receive an average of at least 2.5 inches of rainfall per month during the three months of its growth. The effects of rainfall during June, July, and August upon corn yields are shown by the records of the old continuous corn plot at the University. Corn has been grown on this plot since 1879, but there is no record of the yields previous to 1889.

Summer rainfall

—Less than 7 inches.....	25.3 bu. per acre (8-year av.)
—Between 7 and 10 inches.....	32.4 bu. per acre (9-year av.)
—Over 10 inches.....	39.8 bu. per acre (11-year av.)

When the rainfall was less than two inches per month, the yield was reduced, for a four-year average, to 24.4 bushels per acre, and when the rainfall was over thirteen inches, the yield was 45.9 bushels per acre, for a seven-year average. This is a difference of 21.5 bushels between yields produced with what might be called the maximum rainfall and those produced with the minimum, at the University of Illinois. It is evident from this that a month during which there is less than two inches of rainfall may be regarded as a dry month.

### EXTREME NORTHERN DISTRICT

The average annual precipitation for the extreme northern district is 33.99 inches, as shown by the records for the fifty years from 1866 to 1915. This is 9.29 inches less than the average for the extreme southern district. However, the rainfall in this district is better distributed for the growing of crops than is that in any other part of the state—a fact which about compensates for the smaller total. From March to August the average rainfall is 20.56 inches, or 60.4 percent of the average annual rainfall. During the winter the average rainfall is 5.44 inches; during spring, 9.34 inches, during summer, 11.22 inches; and during fall, 7.99 inches.

June is the month of greatest rainfall, while May has an average of only .07 inch less. During the last twenty years, however, May has had an average of over one inch more than June. February and December have the least precipitation. The highest average monthly rainfall for any ten-year period was 5.03 inches for June, 1876-1885, while July of the same period follows with 4.88 inches, and May, 1906-1915, with 4.63 inches, is next.

The lowest average monthly precipitation for a ten-year period was 1.34 inches for December, 1896-1905. The lowest rainfall recorded for any month during the growing season was .10 inch at Winnebago, for August, 1889, while the heaviest was 15.73 inches at Riley, for September, 1894.

TABLE 1.—AVERAGE MONTHLY AND YEARLY PRECIPITATION: EXTREME NORTHERN DISTRICT  
10-, 20-, 30-, AND 50-YEAR PERIODS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1866-1875.....	2.03	1.20	2.22	2.51	3.13	4.21	3.06	3.38	4.03	1.83	1.68	1.85	31.13
1876-1885.....	1.81	2.23	2.63	3.18	3.74	5.03	4.88	3.40	3.12	3.90	2.63	2.14	38.69
1886-1895.....	2.60	1.99	2.42	3.04	4.39	4.46	2.60	2.94	2.73	2.19	2.17	2.01	33.54
1896-1905.....	1.45	1.73	2.94	2.68	4.38	3.33	4.35	3.45	3.59	2.17	1.52	1.34	32.93
1906-1915.....	1.76	1.64	1.86	3.01	4.63	3.59	3.26	4.20	4.04	2.13	2.23	1.41	33.76
1866-1885.....	1.92	1.72	2.43	2.85	3.44	4.62	3.97	3.39	3.58	2.87	2.16	2.00	34.95
1886-1915.....	1.94	1.79	2.41	2.91	4.47	3.79	3.40	3.53	3.45	2.16	1.97	1.59	33.41
1866-1915.....	1.93	1.76	2.41	2.88	4.05	4.12	3.63	3.47	3.50	2.44	2.05	1.75	33.99

TABLE 2.—AVERAGE MONTHLY AND YEARLY PRECIPITATION: CENTRAL-NORTHERN DISTRICT  
10-, 30-, AND 60-YEAR PERIODS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1856-1865.....	1.85	2.13	2.78	3.42	3.57	3.25	4.07	3.50	3.54	2.54	2.34	2.65	35.62
1866-1875.....	2.05	1.44	2.53	2.79	3.92	3.51	3.63	3.69	3.58	1.97	2.00	2.01	33.12
1876-1885.....	1.64	2.44	2.52	3.42	4.00	5.11	3.85	3.38	2.79	4.09	2.75	2.13	38.12
1886-1895.....	2.06	1.92	2.32	2.80	4.23	3.75	2.94	2.39	2.98	1.84	2.41	2.17	31.81
1896-1905.....	1.80	1.82	3.10	2.66	4.08	3.80	4.01	3.68	3.81	1.93	1.84	1.34	33.87
1906-1915.....	1.88	1.85	2.01	2.96	4.48	3.02	3.38	3.52	4.05	2.04	2.13	1.61	32.93
1856-1885.....	1.85	2.00	2.61	3.21	3.83	3.95	3.85	3.52	3.30	2.87	2.36	2.26	35.61
1886-1915.....	1.91	1.87	2.48	2.81	4.26	3.52	3.44	3.20	3.61	1.94	2.13	1.71	32.88
1856-1915.....	1.88	1.93	2.54	3.01	4.05	3.74	3.65	3.36	3.46	2.40	2.25	1.99	34.26



About two out of every five Marches are relatively dry, having less than two inches of rain, while one April in every four is dry. May once in eight years is dry, June twice in thirteen years, July once in five years, and August twice in eight years. The greatest range in the average annual rainfall during the fifty years has been 27.11 inches—from 22.20 inches in 1901 to 49.31 inches in 1892.

#### CENTRAL-NORTHERN DISTRICT

For the central-northern district the records of the sixty years from 1856 to 1915 show an average annual rainfall of 34.26 inches. This is only .27 inch more than the rainfall for the extreme northern district. From March to August the central-northern district receives 20.35 inches, or 59.4 percent of its rainfall. The average precipitation in winter is 5.80 inches; in spring, 9.60 inches; in summer, 10.75 inches; and in fall, 8.11 inches. The lowest annual rainfall recorded was 23.17 inches in 1901, and the highest 49.25 inches in 1902.

May is the month of greatest rainfall, with an average of 4.05 inches, and June is next, with 3.74 inches. The highest average rainfall for a period of ten years occurred in June from 1876 to 1885, the average being 5.11 inches. May follows with 4.48 inches as an average of the years 1906 to 1915.

January is the month of lowest rainfall, the average for the sixty years being 1.88 inches. Among the ten-year averages, the month of December during the years 1896 to 1905 is the lowest, with 1.34 inches, while February is next with 1.44 inches as an average of the years 1866 to 1875.

The recurrence of dry periods is about the same as in the extreme northern district. One-third of the Marches are dry, having less than two inches of rainfall; also one-fourth of the Aprils, one-tenth of the Mays, one-ninth of the Junes, two-elevenths of the Julys, and two-ninths of the Augusts. The lowest rainfall recorded at any of the twenty-three stations of this district during the growing season was .10 inch at Aledo in July, 1913, and the same amount at Lanark in April, 1915. The heaviest rainfall for any month was 20.03 inches at Monmouth in September, 1911.

#### CENTRAL DISTRICT

The annual rainfall of the central district is 36.89 inches as an average of the sixty years during which records have been kept. This is about two inches more than that of the districts to the north. The highest ten-year average was 40.54 inches for the years 1876 to 1885, while the lowest was 34.11 inches for the years 1886 to 1895—a difference of 6.43 inches. From March to August the average precipitation is 21.47 inches, or 58.4 percent, of the yearly rainfall. During the

TABLE 3.—AVERAGE MONTHLY AND YEARLY PRECIPITATION: CENTRAL DISTRICT  
10-, 30-, AND 60-YEAR PERIODS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1856-1865.....	2.08	2.93	2.93	4.03	3.54	3.99	4.10	2.37	3.74	2.60	2.19	2.68	37.18
1866-1875.....	2.36	1.91	2.88	3.35	3.91	3.87	4.98	3.11	3.55	2.48	1.99	2.33	36.72
1876-1885.....	1.67	2.99	3.04	3.32	4.17	5.50	3.51	3.46	3.46	4.10	2.86	2.46	40.54
1886-1895.....	2.08	2.42	2.53	3.49	4.26	3.71	3.06	2.55	3.22	1.33	3.26	2.20	34.11
1896-1905.....	2.22	2.10	3.60	2.98	4.10	4.27	3.88	3.41	3.59	2.39	2.16	1.86	36.56
1906-1915.....	2.53	2.19	2.54	3.65	4.27	3.33	3.83	3.33	4.03	2.17	2.46	1.88	36.21
1856-1885.....	2.04	2.61	2.95	3.57	3.87	4.45	4.20	2.98	3.58	3.06	2.35	2.49	38.15
1886-1915.....	2.28	2.24	2.89	3.37	4.21	3.77	3.59	3.10	3.61	1.96	2.63	1.98	35.63
1856-1915.....	2.16	2.42	2.92	3.47	4.04	4.11	3.89	3.04	3.60	2.51	2.49	2.24	36.89

TABLE 4.—AVERAGE MONTHLY AND YEARLY PRECIPITATION: CENTRAL-SOUTHERN DISTRICT  
10-, 30-, AND 60-YEAR PERIODS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1856-1865.....	2.19	3.03	3.76	3.85	4.40	4.25	4.29	3.65	3.30	3.04	3.17	3.75	42.68
1866-1875.....	2.52	2.61	3.75	3.59	4.76	4.66	5.18	4.05	3.09	2.15	2.45	3.10	41.91
1876-1885.....	3.01	3.55	3.09	3.53	4.13	5.20	3.55	3.16	3.46	3.91	3.57	3.09	43.25
1886-1895.....	2.89	3.15	3.38	4.22	4.07	4.05	2.81	3.18	2.98	1.50	4.09	2.49	38.81
1896-1905.....	2.61	2.49	5.41	3.14	4.01	4.36	4.05	2.79	3.01	2.68	2.75	2.69	39.99
1906-1915.....	3.83	3.15	3.66	3.99	3.78	3.65	3.66	4.00	4.01	2.89	3.01	2.65	42.28
1856-1885.....	2.57	3.06	3.53	3.66	4.43	4.70	4.34	3.62	3.28	3.03	3.06	3.31	42.59
1886-1915.....	3.11	2.93	4.15	3.78	3.95	4.02	3.51	3.32	3.33	2.36	3.28	2.61	40.36
1856-1915.....	2.84	3.00	3.84	3.72	4.19	4.36	3.92	3.47	3.31	2.70	3.17	2.96	41.48



winter months there is an average rainfall of 6.82 inches; during the spring months, 10.43 inches; during the summer 11.04 inches; and during the fall, 8.60 inches. The lowest precipitation for any one year was 24.12 inches in 1879. In 1901 the total rainfall was 26.43 inches; and in 1914, 25.83 inches. The greatest annual rainfall was 48.24 inches in 1876.

June is the month of highest average rainfall, with 4.11 inches. May and July follow closely with 4.04 and 3.89 inches. The highest average monthly rainfall for a ten-year period was 5.50 inches for June, 1876-1885. July follows with 4.98 inches in the period from 1866 to 1875.

January is the month of lowest precipitation, with an average of 2.16 inches. December follows with 2.24 inches, and February with 2.42 inches. October shows the lowest ten-year average rainfall, 1.33 inches for the period 1886 to 1895, while January follows with 1.67 inches for the ten years 1876 to 1885.

The recurrence of dry months is about as frequent as in the northern districts. As an average, one dry March occurs every three years, two dry Aprils every eleven years, one dry May every six years, one dry June every ten years, two dry Julys every thirteen years, and one dry August every four years.

The lowest rainfall recorded in any month from April to September for this district was a trace at Carlinville and at Hillsboro in September, 1897. At Carlinville there was .16 inch in July, 1886, and .10 inch in September, 1883. The heaviest rainfall recorded for any month during the sixty years was 14.77 inches for June, 1915, at Griggsville.

#### CENTRAL-SOUTHERN DISTRICT

The average annual rainfall of the central-southern district, as shown by the records for sixty years, is 41.48 inches, or 4.59 inches more than the central district for the same period and 7.22 inches more than the central-northern district. The highest ten-year annual average was 43.25 inches for the years 1876 to 1885, while the lowest was 38.81 inches for 1886 to 1895. The lowest rainfall for any one year was 29.44 inches in 1901. In 1871 the rainfall was but 30.01 inches. The highest annual rainfall was 59.95 inches in 1858. From March to August there is an average precipitation of 23.50 inches, or 56.6 percent of the average yearly rainfall. The winter rainfall is 8.80 inches; that of spring, 11.75 inches; that of summer, 11.75 inches; and that of fall, 9.18 inches.

June is the month of highest average rainfall, with 4.36 inches, while May is next with 4.19 inches. June shows the highest ten-year average, 5.20 inches during the period from 1876 to 1885. July comes next with 5.18 inches for the years 1866 to 1875.

October is the month of lowest rainfall, with an average of 2.70 inches. For this month is recorded also the lowest precipitation for a

TABLE 5.—AVERAGE MONTHLY AND YEARLY PRECIPITATION: EXTREME SOUTHERN DISTRICT  
10-, 20-, 30-, AND 50-YEAR PERIODS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1866-1875.....	2.46	3.94	5.20	4.01	3.78	3.38	3.33	1.92	2.79	1.91	3.23	3.04	38.99
1876-1885.....	4.53	4.23	3.70	4.02	4.90	5.53	3.72	4.01	3.13	4.00	4.14	4.08	49.99
1886-1895.....	3.41	3.39	3.82	3.59	3.54	4.09	2.70	3.06	2.61	1.90	4.98	2.82	39.91
1896-1905.....	3.26	2.65	5.30	3.71	4.38	4.14	3.94	2.54	2.80	2.90	2.90	3.46	41.98
1906-1915.....	4.58	3.86	3.88	4.75	3.28	3.10	4.13	3.90	3.64	3.29	3.48	3.62	45.51
1866-1885.....	3.50	4.09	4.45	4.02	4.34	4.46	3.53	2.97	2.96	2.96	3.69	3.56	44.53
1886-1915.....	3.75	3.30	4.33	4.02	3.73	3.78	3.59	3.17	3.02	2.70	3.79	3.30	42.48
1866-1915.....	3.65	3.61	4.38	4.02	3.98	4.05	3.56	3.09	2.99	2.80	3.75	3.40	43.28



ten-year period, the average for the years 1886 to 1895 having been only 1.50 inches.

The recurrence of months with less than two inches of rainfall is less frequent in this district than in the central district and other districts farther to the north. The greater injurious effects from drouth are due almost entirely to soil conditions. Time will be required to remedy these. Heavy applications of limestone must be made, deep-rooting crops must be grown to loosen the subsoil, and organic matter of every available kind must be incorporated with the soil. This will put the soil in better condition to absorb and retain moisture.

As an average, two Marches in every fifteen years are dry, two Aprils in every nine years, one May in every twelve years, one June in every twelve years, one July in every ten years, and one August in every five years.

The lightest rainfall recorded in this district, for any one month during the growing season, was a trace in April, 1915, at Fairfield, and the same in August, 1909, at Carlyle. The greatest rainfall was 15.30 inches in July, 1875, at Flora. The heaviest monthly rainfall recorded at St. Louis, Missouri, was 17.07 inches in June, 1848.

#### EXTREME SOUTHERN DISTRICT

The extreme southern district includes the Ozark Ridge region and some extensive bottom lands. Records for the fifty years from 1866 to 1915 show the average annual rainfall to be 43.28 inches, which is 9.29 inches more than that of the extreme northern district for the same period. From March to August the average rainfall is 23.08 inches, or 53.3 percent of the average annual rainfall. During the winter months it is 10.66 inches; during the spring, 12.38 inches; during summer, 10.70 inches; and during fall, 9.54 inches. The lowest annual rainfall was 26.52 inches in 1872, while the greatest was 62.89 inches in 1882.

March is the month of greatest rainfall, having an average for fifty years of 4.38 inches. June is next with 4.05 inches. The highest average monthly rainfall for a ten-year period was 5.53 inches for June in the years 1876 to 1885.

October is the month of lowest rainfall, with an average of only 2.80 inches. The lowest average monthly rainfall for a ten-year period was 1.90 inches for October during the years 1886 to 1895. From 1866 to 1875 an average of only 1.91 inches of rain fell during October.

Months of low rainfall are no more common in this district than in the northern districts. One in every seven Marches is dry, or has less than two inches of rain, one in ten Aprils, two in eleven Mays,

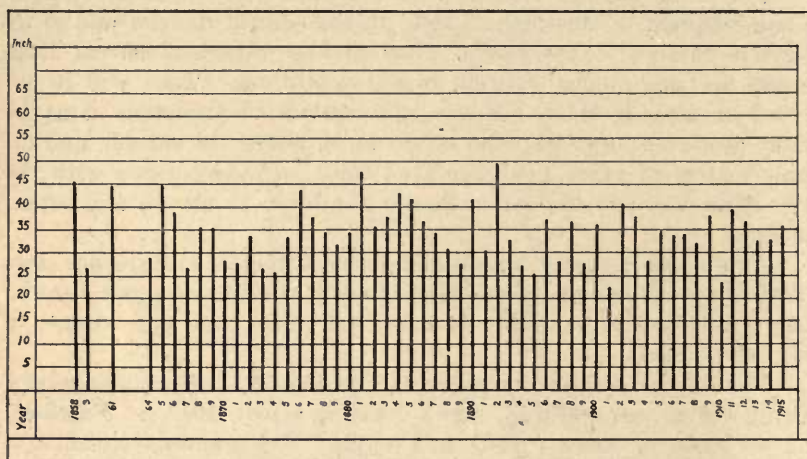


FIG. 4.—ANNUAL PRECIPITATION FOR EXTREME NORTHERN DISTRICT  
DURING FIFTY-EIGHT YEARS

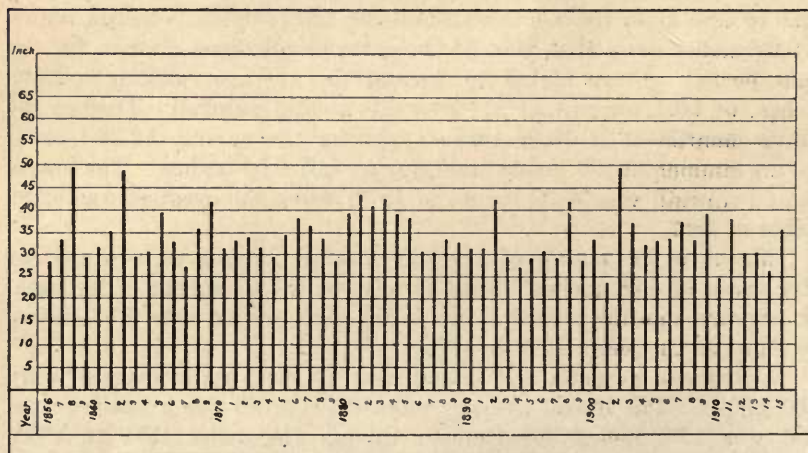


FIG. 5.—ANNUAL PRECIPITATION FOR CENTRAL-NORTHERN DISTRICT  
DURING SIXTY YEARS



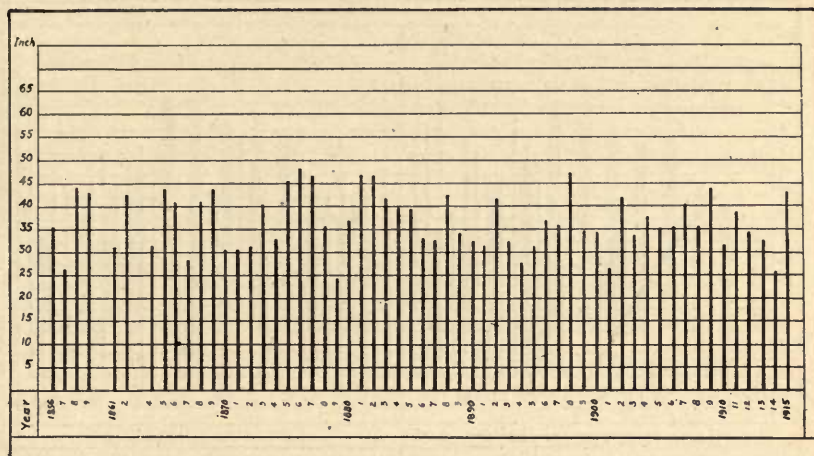


FIG. 6.—ANNUAL PRECIPITATION FOR CENTRAL DISTRICT DURING FIFTY-NINE YEARS

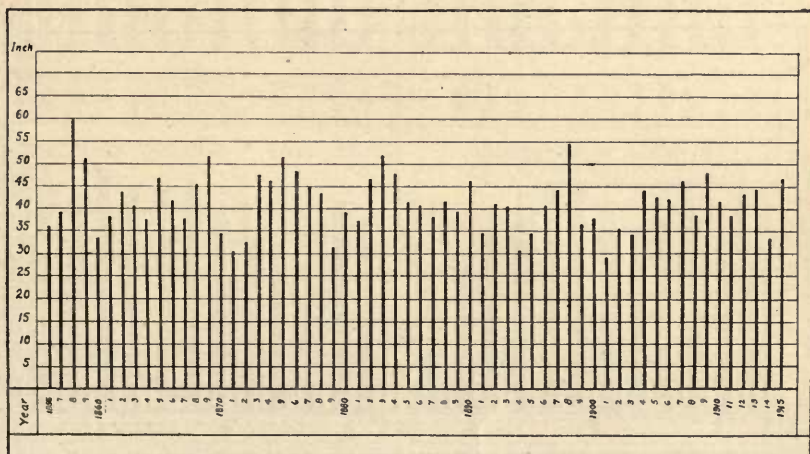


FIG. 7.—ANNUAL PRECIPITATION FOR CENTRAL-SOUTHERN DISTRICT DURING SIXTY YEARS

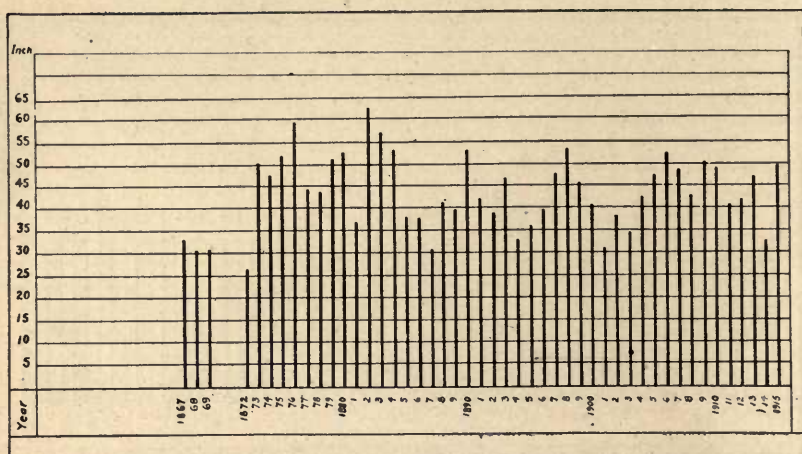


FIG. 8.—ANNUAL PRECIPITATION FOR EXTREME SOUTHERN DISTRICT DURING FORTY-SEVEN YEARS

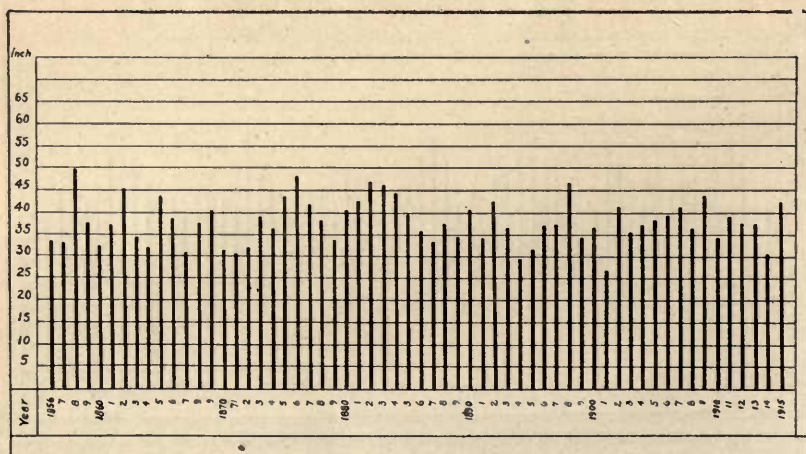


FIG. 9.—ANNUAL PRECIPITATION FOR STATE AS A WHOLE DURING SIXTY YEARS



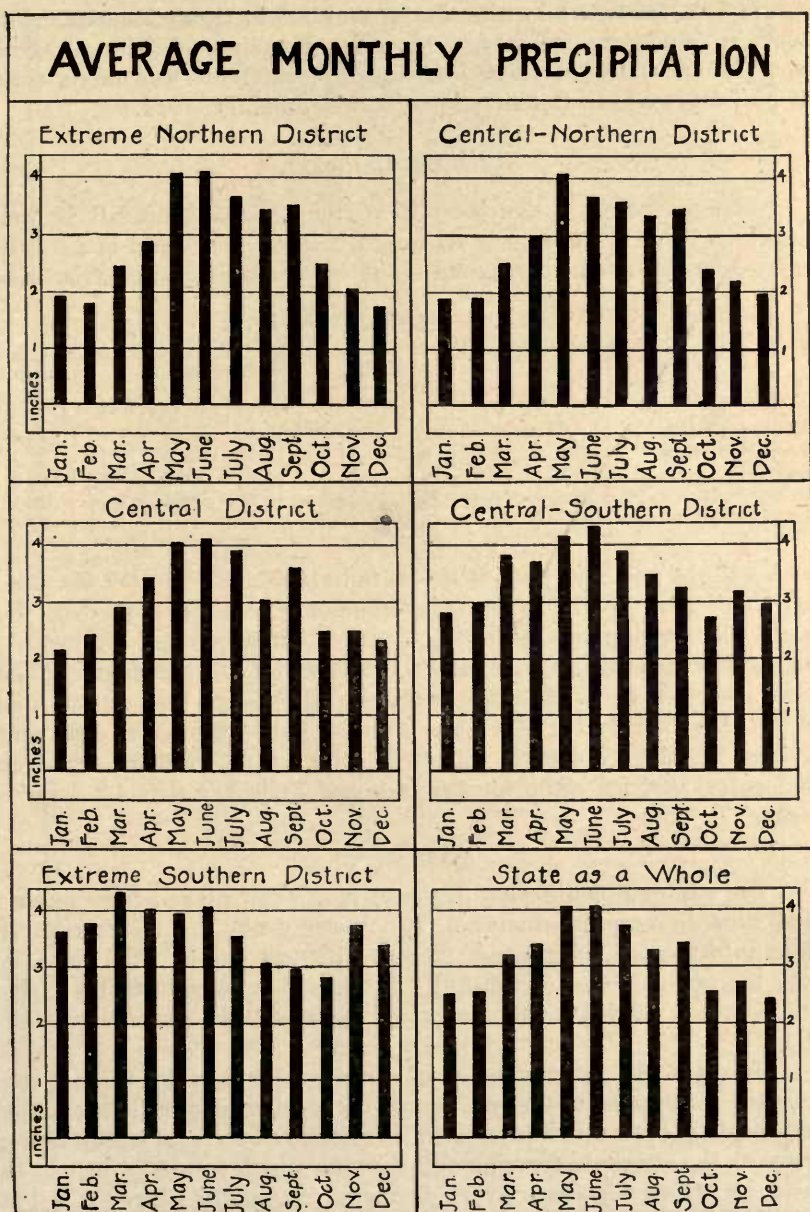


FIG. 10.—AVERAGE MONTHLY PRECIPITATION FOR THE DISTRICTS OF THE STATE AND FOR THE STATE AS A WHOLE

For the state as a whole, January averages 2.49 inches; February, 2.54; March, 3.22; April, 3.42; May, 4.06; June, 4.08; July, 3.73; August, 3.29; September, 3.37; October, 2.57; November, 2.74; December, 2.47; yearly total, 37.98.

one in six Junes, two in nine Julys, and one in three Augusts. The heaviest rainfall recorded for any one month was 15.46 inches in October, 1910, at Goleonda. The least for any one month was only a trace at New Burnside in October, 1908, and in January, 1911.

### SEASONAL RAINFALL

The comparative distribution of the seasonal rainfall is well shown in Table 6, where it is expressed both in inches and in percentage. Note the gradual increase of the winter precipitation from 5.44

TABLE 6.—SEASONAL RAINFALL

District	Winter		Spring		Summer		Autumn	
	<i>inches</i>	<i>percent</i>	<i>inches</i>	<i>percent</i>	<i>inches</i>	<i>percent</i>	<i>inches</i>	<i>percent</i>
Extreme northern...	5.44	16.0	9.34	27.4	11.22	33.0	7.99	23.6
Central-northern....	5.80	16.8	9.61	27.9	10.75	31.6	8.11	23.7
Central.....	6.82	18.0	10.43	27.9	11.04	30.7	8.60	23.4
Central-southern....	8.80	21.2	11.75	28.3	11.75	28.3	9.18	22.2
Extreme southern...	10.66	24.8	12.38	28.5	10.70	24.7	9.54	22.0

inches in the northern part of the state to 10.66 inches in the southern part, and also the almost uniform summer precipitation thruout the state. The spring rainfall shows a very distinct increase southward; the autumn rainfall also increases southward but to a less degree. (The more severe effects of drouth in southern Illinois are very largely due to the character of the soil. The average temperature for July and August is only 1.7 degrees higher for the central-southern than for the central district, altho for January and February it is 4.3 degrees higher.)

### SNOWFALL

The winter precipitation in the form of snow plays a very important part in crop production. The water from the melting snow sinks into the soil, if it is not frozen, with less run-off than there is with the same amount of rainfall. If the soil is frozen and the melting is rapid, much run-off occurs and is frequently accompanied by floods.

However, the greatest value of snow in humid regions is not the moisture it supplies to the soil, but the protection it affords the crops that live in the soil over winter, such as alfalfa, clover, and wheat. Snow prevents the alternate freezing and thawing which results in injury to the crops. Open winters are very damaging, especially where the soil is not well drained. When freezing occurs, the soil is frozen fast to the roots; when upward expansion takes place, the plant is raised; and when thawing occurs, the soil settles back but the plant does not. Repeated freezings cause the plant to be heaved from the soil. If the soil is well drained, the expansion of freezing will be taken care of largely





within the pore space of the soil itself, or the soil may not grip the plant with sufficient firmness to loosen the deeper roots.

Snow, being a poor conductor of heat, forms a very effective covering for the winter crops. During periods of intense cold the temperature of the soil one inch deep beneath the snow is much higher than the temperature of the air above. Experiments show that the temperature on top of a snow is from 11 to 15 degrees lower than the ground under a 4-inch snow.

The average annual snowfall for the central-southern and extreme southern districts is 17.5 inches; for the central, 23.3 inches; and for the central-northern and extreme northern, 31.7 inches. The average for the state is 24.7 inches.

One of the most important factors in the protection which the snow offers to a crop is its duration on the land. In the northern quarter of the state, snow remains on the ground during a large part of the winter, while in the central and southern districts it is the exception for it to remain more than a week.



## TEMPERATURE

## RELATION OF TEMPERATURE TO GROWTH OF CROPS

From the extreme northern to the extreme southern boundaries of Illinois there are eleven degrees of difference in mean temperature and four and one-half weeks difference in the length of the growing season. These differences produce a marked effect upon the character and the kinds of crops that are commonly grown in the state. Cotton may be produced in the extreme southern part, where the climate is moderated by the latitude and possibly also in some small degree by the pouring of floods of the warm waters from the Cumberland and Tennessee rivers into the Ohio river. In the north end of the state early-maturing varieties of corn must be planted, and even these are sometimes badly damaged by early frosts. The high temperatures in the south third of the state commonly prevent the successful growing of oats there, while in the extreme north oats are one of the most successful crops. The native vegetation, and especially the forest trees of the extreme sections, show very striking differences. The beech, the tulip, the gums, the post oak, and the water oak, for instance, are confined to the southern part of the state.

The first vital function of plants which is greatly influenced by temperature is that of germination. Seeds do not germinate well if the soil is too cold. Oats, wheat, rye, flax, and clover will germinate slowly at temperatures between 32° and 40° F., tho much higher temperatures are best. Corn requires a high temperature for quick germination. In a test by Haberlandt, eleven days at 51° F. were required for the sprout to show, while at 65° only three days were necessary. Germination should be as rapid as possible in order to lessen the danger from decay and the likelihood of attacks of fungi which destroy the seed.

TABLE 7.—DAYS REQUIRED FOR GERMINATION OF SEED (RADICLE TO APPEAR)  
AT VARIOUS SOIL TEMPERATURES

	40° F.	51° F.	60° F.	65° F.
Rye.....	4	2½	1	1
Wheat.....	6	3	2	1¾
Oats.....	7	3¾	2¾	2
Alfalfa.....	6	3¾	2¾	2
Red clover.....	7½	3	1¾	1
Flax.....	8	4½	2	2
Timothy.....	..	6½	3¼	3
Corn.....	..	11¼	3¼	3
Pumpkin.....	..	..	10¾	4

With many of our crops, such as rye, wheat, oats, alfalfa, sweet clover, and blue grass, growth takes place at very low temperatures. Wheat grows in winter, to a small extent, during the warm spells, and

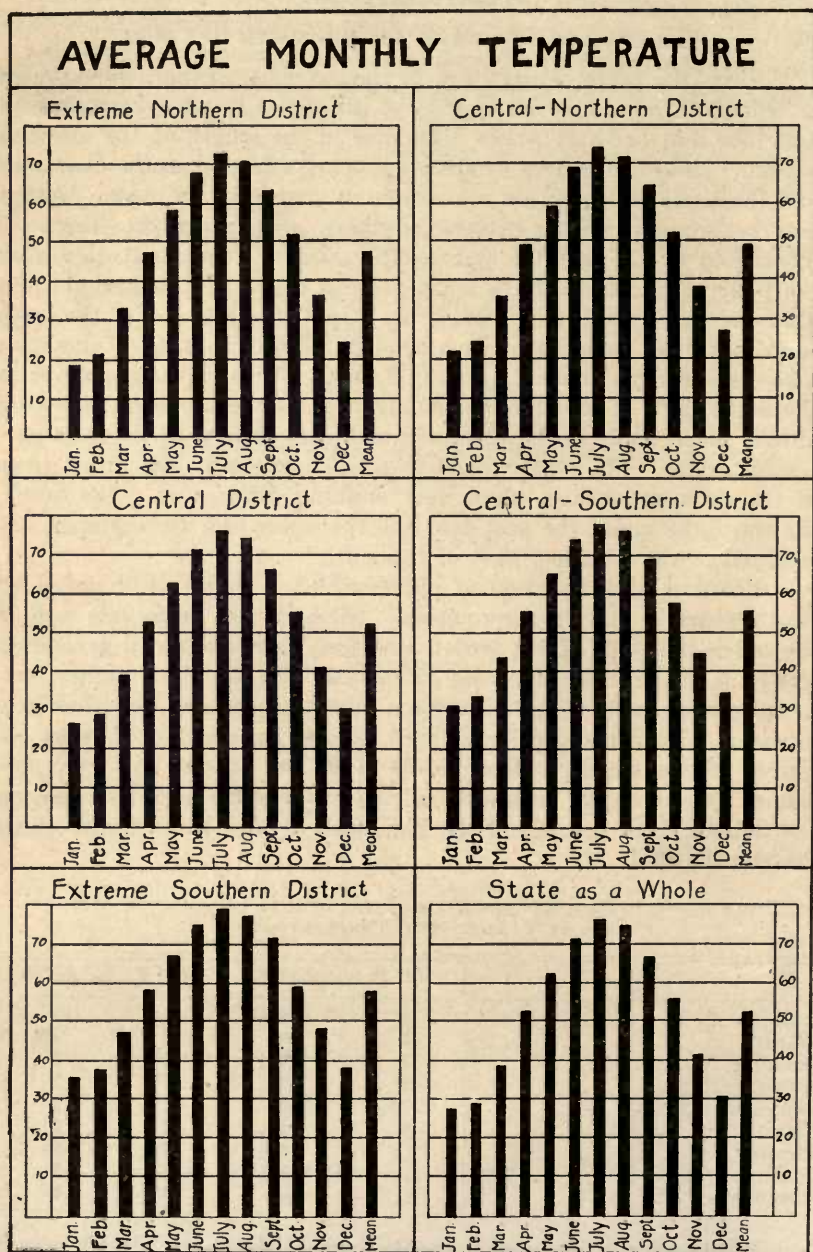


FIG. 12.—AVERAGE MONTHLY AND MEAN MONTHLY TEMPERATURES FOR THE DISTRICTS OF THE STATE AND FOR THE STATE AS A WHOLE



the common, and undoubtedly true, impression of farmers is that wheat makes some growth even under snow. Corn makes practically no growth below 49° F. For normal rapid growth the temperature of the soil must be 75° or above, at least during part of the day. Alfalfa shoots may start during the early days of March, while weeds may grow with temperatures but little above freezing. Mustard has been known to make some growth at 32° F.

The zero point for the growth of corn is 49°. This crop is more dependent upon the temperature of the soil than upon the temperature of the air above it. A cold soil produces slow growth and late maturity. This fact was markedly evident in 1915 in the corn crop. The average state temperature was below normal for the months that are of most consequence in the growing period. May was 2.5 degrees below normal, June 3.0 degrees, July 3.1 degrees, and August 6.1 degrees, while September was 1.4 degrees higher than normal. The result was that corn did not mature at the usual time and much of it was badly injured by frost even tho frost did not occur until October 6. The low temperature was very favorable for oats, which require less heat than corn.

For the production of crops a certain number of hours in which the temperature is above the "zero point of growth" is necessary. These are known as degree-hours and are ascertained by multiplying the number of hours during which the temperature is above the zero point of growth by the number of degrees the average temperature is above that point. Assuming that corn makes no growth below 49°, and that it is planted on May 20 and continues to grow until September 15, then the degree-hours which corn has for its development in the extreme northern district, as shown by the temperature records for the forty years from 1876 to 1915, is 57,910. For comparison with other districts, see Table 8.

TABLE 8.—AVERAGE NUMBER OF DEGREE-HOURS FOR THE GROWTH OF CORN IN THE VARIOUS DISTRICTS OF THE STATE

(Based on average air temperature from May 20 to September 15)

District	Degree-hours
Extreme northern.....	57 910
Central-northern.....	60 860
Central.....	67 240
Central-southern.....	72 600
Extreme southern.....	76 560

Table 9 gives the average number of degree-hours for the growing of corn, for the state as a whole, each year since 1876, together with

the average yield of corn. Table 10 gives the same data for the Experiment Station.

TABLE 9.—RAINFALL, DEGREE-HOURS, AND AVERAGE YIELD OF CORN FOR ILLINOIS

Year	Rainfall				Degree-hours				Average corn yield per acre
	June	July	Aug.	Total	July	Aug.	Total July & Aug.	Total May 20— Sept. 15	
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>					<i>bu.</i>
1876	5.72	5.48	4.45	15.65	20 683	19 716	40 399	67 470	25.0
1877	5.64	3.36	2.95	11.95	20 385	18 674	39 059	66 150	30.0
1878	3.46	4.07	3.91	11.44	22 543	20 609	43 152	69 510	29.0
1879	4.08	3.58	4.91	12.57	21 948	18 005	39 953	66 090	38.0
1880	4.65	3.36	3.53	11.54	19 790	19 790	39 580	69 210	33.0
1881	5.94	3.30	.86	10.10	21 353	21 650	43 003	73 620	24.0
1882	6.39	3.53	4.15	14.07	16 963	17 707	34 670	57 930	24.0
1883	5.45	4.74	1.91	12.10	19 195	16 442	35 637	60 660	25.0
1884	5.04	4.61	2.67	12.32	18 749	16 740	35 489	62 660	33.0
1885	5.65	2.87	5.53	14.05	20 683	16 294	36 977	62 220	32.0
1886	3.76	1.16	3.87	8.79	20 386	19 642	40 028	65 710	25.0
1887	1.79	2.23	2.62	6.64	22 766	18 897	41 663	71 280	19.0
1888	4.47	3.85	4.16	12.48	20 609	17 335	37 944	63 380	39.0
1889	5.68	4.49	1.14	11.31	19 195	17 335	36 530	60 000	35.0
1890	5.21	1.63	3.26	10.10	20 460	16 666	37 126	67 110	27.0
1891	3.96	2.21	4.37	10.54	16 517	16 889	33 406	62 290	33.5
1892	6.57	3.71	3.41	13.69	19 121	18 377	37 498	64 900	26.2
1893	4.11	2.24	1.11	7.46	21 502	17 856	39 358	67 320	25.7
1894	1.97	1.41	1.84	5.22	20 609	19 642	40 251	71 420	28.8
1895	2.74	5.41	2.54	10.69	19 046	19 939	38 985	70 000	37.4
1896	4.13	5.54	2.66	12.33	20 237	19 790	40 027	68 890	40.5
1897	4.47	3.43	1.08	8.98	21 427	17 856	39 283	68 820	32.5
1898	4.16	3.54	4.35	12.05	20 162	18 823	38 985	69 100	30.0
1899	3.03	3.89	2.43	9.35	19 790	20 832	40 622	69 990	36.0
1900	4.94	4.27	3.53	12.74	19 939	23 138	43 077	69 960	37.0
1901	3.02	2.48	2.17	7.67	23 510	19 493	43 003	75 240	21.0
1902	6.87	4.50	3.86	15.23	20 460	17 410	37 870	63 730	38.7
1903	2.73	3.88	4.52	11.13	20 237	17 930	38 167	62 360	32.2
1904	3.04	4.17	3.70	10.91	18 228	16 591	34 819	61 190	36.5
1905	3.43	5.07	3.50	12.00	18 079	19 418	37 497	66 520	39.8
1906	3.18	2.69	4.37	10.24	18 526	20 386	38 902	67 840	36.1
1907	4.41	5.08	5.09	14.58	20 237	17 930	38 167	62 500	36.0
1908	2.82	3.28	2.54	8.64	19 939	18 898	38 837	67 040	31.6
1909	4.05	4.16	2.39	10.60	18 674	21 204	39 878	67 830	35.9
1910	2.26	4.51	2.91	9.68	21 055	18 302	39 357	64 870	39.1
1911	2.83	2.40	4.68	9.91	20 311	18 154	38 465	71 160	33.0
1912	3.67	4.64	3.87	12.18	20 014	17 707	37 721	65 210	40.0
1913	2.36	2.84	2.41	7.61	21 725	21 576	43 301	73 760	27.0
1914	3.07	1.40	3.36	7.83	22 246	19 939	42 185	73 200	29.0
1915	4.44	5.57	5.62	15.63	17 856	13 094	30 950	60 180	36.0
Av.	4.13	3.61	3.31	11.05	20 129	18 667	38 796	66 708	31.9



From 1876 to 1915 the average number of degree-hours for the state for the growing of corn was 66,708 per year. The highest number in any one season was 75,240 in 1901, and the lowest number was 57,930 in 1882. The average yield of corn for the state for the former year was 21 bushels and for the latter 24 bushels. During this forty-year period, twenty-one years have been above normal in number of degree-hours, with an average yield of 30.4 bushels of corn per acre, for the state, while nineteen years have been below normal, with an average yield of 33.6 bushels; showing that better yields are obtained when the temperature is slightly below normal.

TABLE 10.—RAINFALL, DEGREE-HOURS, AND YIELDS OF CONTINUOUS CORN PLOT AT ILLINOIS AGRICULTURAL EXPERIMENT STATION, URBANA.

Year	Rainfall			Degree-hours			Degree-hours	Average corn yield per acre
	June	July	Aug.	June	July	Aug.	May 20—Sept. 15	
	<i>inches</i>	<i>inches</i>	<i>inches</i>					<i>bu.</i>
1889	6.81	5.81	.60	12 646	17 633	15 103	56 796	54.3
1890	3.80	2.83	1.93	18 432	17 856	14 657	59 350	43.2
1891	2.08	1.41	2.86	16 488	15 624	15 773	56 960	48.7
1892	5.36	2.50	2.45	15 552	17 079	16 730	57 840	33.1
1893	1.55	.59	.06	15 480	20 386	16 442	64 200	21.7
1894	1.78	1.08	2.06	17 568	18 451	17 335	56 750	34.8
1895	2.24	3.61	1.81	17 496	16 591	18 005	62 770	42.2
1896	2.98	7.87	3.74	15 264	18 451	17 112	62 760	62.3
1897	5.16	4.68	.63	14 760	19 939	15 624	63 696	40.1
1898	6.08	1.89	3.61	17 712	20 758	18 600	65 714	18.1
1899	2.29	2.65	2.29	16 128	18 898	19 567	67 717	50.1
1900	4.11	3.81	6.23	14 616	18 749	21 874	68 494	48.0
1901	5.80	2.48	1.68	16 704	22 692	18 451	69 261	23.7
1902	11.73	4.02	9.80	13 968	19 046	15 175	55 925	60.2
1903	2.56	5.13	2.33	11 160	19 195	16 814	58 475	26.0
1904	1.17	2.61	3.55	14 256	17 484	15 847	59 250	21.5
1905	1.30	5.40	2.14	15 912	17 782	19 121	59 095	24.7
1906	3.08	2.16	4.57	14 328	18 005	19 567	59 174	27.1
1907	5.56	5.41	4.42	12 744	18 749	16 517	56 973	29.0
1908	1.99	2.31	2.05	14 544	18 526	17 702	63 125	13.4
1909	3.75	7.57	2.37	15 264	16 368	19 642	60 658	26.6
1910	2.99	2.76	2.62	14 832	18 695	16 368	61 160	35.8
1911	.82	.62	3.35	18 288	19 567	17 856	71 445	21.8
1912	1.89	3.68	2.06	13 248	18 749	16 666	66 030	23.2
1913	1.67	1.52	1.44	16 920	21 725	21 204	79 380	19.4
1914	2.40	1.44	2.65	20 592	23 436	20 386	78 090	31.6
1915	2.98	7.30	4.90	15 552	18 674	13 690	60 150	40.0
1916	3.88	.47	1.72	13 608	24 701	21 725	73 810	11.2
Av.	3.49	3.34	2.85	15 436	19 065	17 627	63 395	33.2

The ten years with the highest number of degree-hours gave an average yield of 29.2 bushels, while the ten years with the lowest number gave a yield of 32.3 bushels. The four years with the highest number of degree-hours gave an average yield of 25.2 bushels, while the four years with the lowest number gave an average of 30 bushels. The relation between the number of degree-hours and the rainfall, and the yield on the continuous corn plot at the Experiment Station at Urbana, is shown by the data presented in Table 11.

TABLE 11.—RELATION BETWEEN DEGREE-HOURS, RAINFALL, AND YIELD OF CONTINUOUS CORN PLOT, AGRICULTURAL EXPERIMENT STATION, URBANA

Degree-hours	Average yield of corn per acre	Average rainfall for July and August
	<i>bushels</i>	<i>inches</i>
Over 70,000.....	21.0 for 4 years	3.30
Between 70,000 and 65,000.....	32.6 for 5 years	6.05
Between 65,000 and 60,000.....	36.5 for 8 years	6.87
Below 60,000.....	36.6 for 11 years	6.82

These data indicate that altho a lower yield occurs during the years of higher temperature, the higher temperature may be correlated with low rainfall, the consequent lack of moisture preventing the crop from utilizing the temperature possibilities.

#### EXTREME NORTHERN DISTRICT

The average temperature for the six northern counties that comprise the extreme northern district is 47.2 degrees. The average for winter is 21.8 degrees; for spring, 46.4 degrees; for summer, 70.4 degrees, and for fall, 50.3 degrees. The lowest temperature reached at any place in the district was -31 degrees at Riley in 1884, and the maximum was 110 degrees at Winnebago in 1901, a range of 141 degrees. The greatest range recorded for any one place is 138 degrees for Riley, in McHenry county. The same range occurred at Dubuque, Iowa, just across the Mississippi river, altho the minimum there reached -32 degrees. The average yearly range by monthly averages is 53.7 degrees.

The average annual maximum temperature for this district is 96.1 degrees, and the average minimum is -17.3 degrees, a range of 113.4 degrees. The average annual temperature has varied from 43.2 degrees in 1885 to 49.8 degrees in 1878, a range of 6.6 degrees (see Appendix, page 121). At Riley, in McHenry county, twenty-four winters since 1870 have had temperatures of -20 degrees or lower, while every winter with the exception of 1906, 1911, and 1913 has reached at least as low as -10 degrees. This station is a fair representative of those of the district.



TABLE 12.—AVERAGE SEASONAL TEMPERATURES: 1876 TO 1915

District	Winter	Spring	Summer	Autumn
Extreme northern.....	21.8	46.4	70.4	50.3
Central-northern.....	24.7	48.3	71.8	51.9
Central.....	28.8	51.9	74.2	54.7
Central-southern.....	33.1	55.0	76.1	57.2
Extreme southern.....	37.0	57.8	77.4	59.6

TABLE 13.—AVERAGE MONTHLY MAXIMUM AND MINIMUM TEMPERATURES OF THE VARIOUS DISTRICTS OF THE STATE: 1876 TO 1915

Month		Extreme northern	Central-northern	Central	Central-southern	Extreme southern
January.....	Max.	47	52	57	63	65
	Min.	-14	-9	-5	0	4
February.....	Max.	50	54	60	64	68
	Min.	-10	-8	-4	-1	5
March.....	Max.	64	67	72	75	77
	Min.	5	8	12	16	20
April.....	Max.	79	82	83	84	84
	Min.	22	23	26	28	30
May.....	Max.	86	88	89	91	90
	Min.	33	34	36	38	42
June.....	Max.	92	94	94	96	94
	Min.	43	43	46	49	54
July.....	Max.	95	97	98	99	97
	Min.	50	50	52	55	59
August.....	Max.	93	95	96	99	97
	Min.	48	48	51	53	56
September.....	Max.	89	92	93	95	94
	Min.	35	37	39	40	44
October.....	Max.	80	83	84	86	86
	Min.	24	25	27	28	32
November.....	Max.	66	69	72	75	76
	Min.	10	12	14	17	20
December.....	Max.	51	54	58	62	64
	Min.	-5	-1	2	7	11
Average annual....	Max.	74	77	80	82	83
	Min.	20	22	25	28	31





The average time of the last killing frost in spring is May 4, while the earliest one in fall is October 12, thus giving a growing season of 161 days.

#### CENTRAL-NORTHERN DISTRICT

The central-northern district is about 100 miles wide north and south and includes the northern half of the corn belt. The average temperature for the forty-year period from 1876 to 1915 is 49.2 degrees. The average winter temperature is 24.7 degrees; of spring, 48.3 degrees; of summer, 71.8 degrees; and of fall, 51.9 degrees. The lowest temperature recorded was -30 degrees in February, 1905, at Aledo, in Mercer county, and at Morrison, in Whiteside county, while the highest was 112 degrees at Ottawa in 1901. This gives a range of 142 degrees. The greatest range recorded for any one place is 138 degrees at Ottawa and at Aledo. The greatest yearly range by monthly averages is 52.0 degrees.

The average annual maximum temperature for the district is 97.4 degrees, and the annual minimum is -14.1 degrees. The lowest annual temperature was 45.7 degrees for 1885, while the highest was 52.1 degrees for 1878 (see Appendix, page 122).

Taking Ottawa, in LaSalle county, as about the center of the district, it will be fairly representative of the conditions of the district. During a record of twenty-nine years, sixteen summers have had a temperature at some time of 100 degrees or more; eight winters have had a temperature below -20 degrees; eleven, between -10 degrees and -20 degrees; and nine between zero and -10 degrees. In 1906 the lowest temperature was 3 degrees above zero.

The average dates for the latest and the earliest killing frosts are May 2 and October 15, giving an average growing season of 166 days.

#### CENTRAL DISTRICT

The width of the central district north and south is about 108 miles. The average temperature is 52.4 degrees, or 3.2 degrees warmer than the central-northern district. The average temperature for winter is 28.8 degrees; for spring, 51.9 degrees, for summer, 74.2 degrees; and for fall, 54.7 degrees. The lowest temperature recorded was -30 degrees at LaHarpe, in Hancock county, in 1905, and the highest was 111 degrees at Coatsburg, in Adams county, in 1901, giving a range of 141 degrees. The greatest range for any one place is 140 degrees at Coatsburg. The average yearly range by monthly averages is 49.6 degrees.

The average annual maximum temperature for the district is 98.1 degrees, and the average minimum is -11.1. The lowest annual temperature was 49.6 degrees for 1885, and the highest was 54.5 degrees

TABLE 16.—AVERAGE MONTHLY AND ANNUAL TEMPERATURE: CENTRAL-NORTHERN DISTRICT  
10-, 20-, AND 40-YEAR PERIODS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1876-1885.....	21.9	27.9	35.2	48.3	58.8	67.9	73.9	72.0	63.9	52.7	38.7	26.8	49.0
1886-1895.....	19.8	24.4	34.5	50.0	58.9	70.9	74.3	71.5	64.4	50.5	35.9	29.0	48.6
1896-1905.....	23.2	20.8	36.5	49.3	61.7	69.3	74.4	72.1	64.8	54.1	39.0	25.6	49.2
1906-1915.....	24.1	25.5	36.6	49.8	59.9	69.2	74.0	72.2	65.6	52.9	40.3	27.6	49.8
1876-1895.....	20.9	26.2	34.9	49.2	58.9	69.4	74.1	71.8	64.2	51.6	37.3	27.9	48.9
1896-1915.....	23.7	23.2	36.6	49.6	60.8	69.3	74.2	72.2	65.2	53.5	39.7	26.6	49.6
1876-1915.....	22.2	24.7	35.7	49.4	59.8	69.3	74.2	71.9	64.7	52.6	38.5	27.3	49.2

TABLE 17.—MAXIMUM AND MINIMUM TEMPERATURES: CENTRAL-NORTHERN DISTRICT

County	Station	Length of record	Average annual maximum	Average annual minimum	Average daily maximum	Average daily minimum	Maximum for period	Minimum for period
		years					year	year
Bureau.....	Tiskilwa.....	17	97.5	-15.0	74.9	19.8	1901	1905
Bureau.....	Walnut.....	21	98.5	-14.0	75.4	20.0	1901	1905
Carroll.....	Lanark.....	22	97.3	-18.3	73.4	17.3	1887	1905
Carroll.....	Zion.....	18	96.0	-17.7	72.8	18.2	1911	1905
Cook.....	Chicago.....	41	94.6	-11.9	74.0	20.3	1901	1872
Cook.....	LaGrange.....	18	97.3	-13.1	73.8	19.5	1901	1905
DeKalb.....	Sycamore.....	29	96.9	-16.3	73.6	16.2	1911	1884
Henry.....	Galva.....	20	98.3	-14.7	75.2	18.7	1901	1905
Iroquois.....	Martinton.....	17	98.7	-12.6	75.1	22.2	1901	1905
Kane.....	Aurora.....	26	97.7	-15.5	73.7	18.1	1901	1905



TABLE 17.—*Concluded*

County	Station	Length of record	Average annual maximum	Average annual minimum	Average daily maximum	Average daily minimum	Maximum for period	Minimum for period
Kane.....	Elgin.....	7	96.3	-12.1	74.1	17.6	1911	1899
Kane.....	St. Charles.....	16	96.8	-15.8	75.0	26.5	1901	1905
Kendall.....	Yorkville.....	13	98.7	-15.5	74.4	18.4	1901	1905
LaSalle.....	LaSalle.....	10	96.7	-10.0	74.8	21.2	1903 } 1911 }	1905
LaSalle.....	Ottawa.....	26	99.3	-13.5	76.4	20.5	1901	1887
LaSalle.....	Streator.....	18	98.2	-12.0	75.6	20.8	1901	1895
Lee.....	Dixon.....	21	97.9	-14.0	74.6	18.2	1901	1905
Livingston.....	Dwight.....	18	98.7	-11.3	75.9	22.0	1911	1899
Livingston.....	Pontiac.....	15	99.1	-10.5	75.9	22.9	1911	1887
Marshall.....	Henry.....	15	97.9	-12.6	75.5	24.1	1901	1905
Mercer.....	Aledo.....	15	97.0	-14.4	74.6	18.6	1901	1905
Ogle.....	Oregon.....	7	98.6	-23.4	75.5	16.6	1894	1895
Peoria.....	Peoria.....	57	99.0	-11.7	77.9	21.2	1887 } 1901 }	1884
Rock Island.....	Davenport, Ia.....	40	95.6	-14.6	74.6	18.7	1911	1884
Warren.....	Monmouth.....	20	99.9	-15.0	75.6	20.4	1901	1905
Whiteside.....	Morrison.....	10	95.1	-15.5	72.8	18.7	1911	1905
Will.....	Joliet.....	20	97.5	-11.9	74.6	18.9	1901	1905
Woodford.....	Minonk.....	18	98.7	-12.8	75.9	21.0	1901	1905
Average.....	.....	..	97.4	-14.1	74.8	19.9	....	....

TABLE 18.—AVERAGE MONTHLY AND ANNUAL TEMPERATURE: CENTRAL DISTRICT  
10-, 20-, AND 40-YEAR PERIODS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1876-1885.....	26.6	32.9	39.5	52.9	62.3	71.0	76.8	74.4	66.4	55.7	40.9	29.5	52.4
1886-1895.....	24.6	29.0	38.6	53.6	62.2	73.1	76.1	73.8	66.9	53.1	39.4	32.6	51.9
1896-1905.....	27.2	25.3	40.8	52.4	64.4	71.8	76.3	74.7	67.4	57.0	42.3	29.4	52.4
1906-1915.....	28.8	29.5	40.3	53.2	62.9	71.9	76.3	74.5	68.2	55.3	43.4	31.1	52.9
1876-1895.....	25.6	31.0	39.1	53.3	62.3	72.1	76.5	74.1	66.7	54.4	40.2	31.1	52.2
1896-1915.....	28.0	27.4	40.6	52.8	63.7	71.9	76.3	74.6	67.8	56.2	42.9	30.3	52.7
1876-1915.....	26.8	29.2	39.8	53.0	62.9	71.9	76.4	74.4	67.2	55.3	41.5	30.4	52.4

TABLE 19.—MAXIMUM AND MINIMUM TEMPERATURES: CENTRAL DISTRICT

County	Station	Length of record	Average annual maximum	Average annual minimum	Average daily maximum	Average daily minimum	Maximum for period	Minimum for period
Adams.....	Coatsburg.....	17	98.1	-11.3	77.4	23.5	1901	1905
Champaign.....	Philo.....	26	97.8	-14.6	75.4	22.4	1887	1887
Champaign.....	Rantoul.....	21	98.7	-13.7	76.1	21.9	1901	1894 } 1905 }
Champaign.....	Urbana.....	25	96.3	-13.0	74.7	22.4	1901	1899 } 1905 }
Christian.....	Morrisonville.....	17	97.0	-13.0	76.2	25.9	1901	1899 }
Christian.....	Pana.....	22	97.5	-10.6	80.9	25.3	1901	1912 }
Clark.....	Martinsville.....	25	97.5	- 8.6	....	....	1909	1887 } 1904 } 1905 }
Coles.....	Charleston.....	23	97.5	-11.0	76.8	25.3	1887	1905 }
Douglas.....	Tuscola.....	19	98.3	-11.6	76.3	24.8	1901	1899 }
Edgar.....	Paris.....	22	98.7	- 9.5	76.7	24.8	1897	1905 }



TABLE 19.—*Concluded*

County	Station	Length of record	Average annual maximum	Average annual minimum	Average daily maximum	Average daily minimum	Maximum for period	Minimum for period
Fulton.....	Astoria.....	13	96.0	-11.0	74.6	23.4	1901	1905
Greene.....	White Hall.....	12	96.9	-9.4	77.1	25.0	1911	1912
Hancock.....	Keokuk, Iowa.....	40	97.0	-13.0	76.9	22.5	1901	1905
Hancock.....	LaHarpe.....	18	98.7	-14.4	76.4	22.0	1901	1905
Logan.....	Lincoln.....	7	97.0	-6.6	76.3	26.0	1908	1912
Macon.....	Decatur.....	20	98.6	-13.0	76.4	24.2	1901	1905
Macoupin.....	Carlinville.....	21	104.0	-11.0	77.4	26.1	1911	1905
McLean.....	Bloomington.....	21	99.9	-11.8	76.5	22.3	1901	1895 } 1905 }
Mason.....	Havana.....	21	99.0	-9.5	77.9	24.5	1901	1905
Montgomery.....	Hillsboro.....	18	100.0	-8.8	77.5	26.8	1901	1905
Morgan.....	Alexander.....	18	98.8	-12.0	77.0	24.8	1901	1905
Moultrie.....	Sullivan.....	14	98.7	-10.7	78.5	24.1	1911	1905
Piatt.....	Bement.....	5	98.8	-8.8	76.6	24.7	1911	1912
Pike.....	Griggsville.....	26	98.8	-10.0	76.5	24.4	1901	1887 } 1905 }
Pike.....	Hannibal, Mo.....	21	97.0	-9.7	76.6	23.9	1911	1905
Sangamon.....	Springfield.....	34	96.9	-9.9	76.6	23.9	1901	1905
Schuyler.....	Rushville.....	20	97.7	-9.4	76.2	24.2	1890	1905
Shelby.....	Windor.....	13	98.0	-13.8	76.4	24.3	1911	1912
Vermilion.....	Danville.....	10	99.0	-9.8	76.2	23.7	1901	1912
Vermilion.....	Hoopeston.....	11	96.1	-14.0	75.1	22.6	1911	1905
Average.....	.....	..	98.1	-11.1	76.7	24.1	....	....

for 1878 and again for 1913 (see Appendix, page 123). At Springfield during thirty-four years, sixteen winters have had temperatures of -10 degrees or lower, and in only one winter was the lowest temperature above zero. The lowest temperature recorded was -24 degrees in 1905. The coldest day of the year occurred in January during seventeen years, in February during twelve years, and in December five years.<sup>1</sup> The maximum summer temperature varies from 91 degrees to 107 degrees. Eight summers since 1880 have reached a temperature of 100 degrees or higher.

The average dates for the latest and the earliest killing frosts in spring and fall are April 26 and October 16, giving an average growing season of 173 days.

#### CENTRAL-SOUTHERN DISTRICT

The approximate average width of the central-southern district north and south is 105 miles. The average temperature is 55.3 degrees, or 2.9 degrees warmer than the central district. The average temperature for winter is 33.1 degrees, for spring, 55.0 degrees; for summer, 76.1 degrees; and for fall, 57.2 degrees. The lowest temperature recorded was -29 degrees at Montrose,<sup>2</sup> in Effingham county, in 1915, while the highest was 113 degrees at Greenville, in Bond county, in 1901, giving a range of 142 degrees. The greatest range for any one place is 134 degrees at Greenville. The greatest yearly range by monthly averages is 46.7 degrees.

The average annual maximum temperature for this district is 99.8 degrees, and the average minimum is -7.1 degrees, a range of 106.9 degrees. The lowest annual temperature was 52.9 degrees for 1885, while the highest was 57.6 degrees for 1908, giving a range of 4.7 degrees (see Appendix, page 124).

At McLeansboro, during twenty-six years, sixteen summers have reached a temperature of 100 degrees or above, the highest being 110 degrees. The lowest winter temperatures were -10 degrees or lower during ten winters, between zero and -10 degrees during nine winters, and above zero during seven winters. The lowest temperature was -19 degrees, and the range for the district 129 degrees.

The average dates of killing frosts in spring and fall are April 15 and October 20, giving an average growing season of 188 days.

#### EXTREME SOUTHERN DISTRICT

The extreme southern district includes the seven southern counties and is approximately 42 miles from north to south. The Ozark Ridge extends east and west across the northern part of the district. The highest point in southern Illinois, 1,046 feet above sea level in the northwest part of Pope county, is on this ridge.

<sup>1</sup>In this respect, Springfield is fairly representative of the state as a whole.

<sup>2</sup>Records at Montrose have been kept only for the years 1912-1915.



TABLE 20.—AVERAGE MONTHLY AND ANNUAL TEMPERATURE: CENTRAL-SOUTHERN DISTRICT  
10-, 20-, AND 40-YEAR PERIODS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1876-1885.....	30.7	35.5	43.2	56.7	65.3	73.5	78.2	76.0	68.8	58.2	43.8	34.2	55.3
1886-1895.....	28.9	33.5	42.0	56.3	64.2	74.9	77.6	75.3	68.7	54.9	42.6	36.2	54.5
1896-1905.....	31.8	30.3	44.9	54.9	66.7	74.0	78.1	76.8	70.0	58.3	45.3	33.2	55.2
1906-1915.....	33.8	33.8	44.7	55.7	65.5	74.1	78.1	76.7	71.1	57.9	46.5	35.1	56.2
1876-1895.....	29.8	34.5	42.6	56.5	64.8	74.2	77.9	75.7	68.8	56.6	43.2	35.2	54.9
1896-1915.....	32.8	32.1	44.8	55.3	66.1	74.1	78.1	76.8	70.6	58.1	45.9	34.2	55.7
1876-1915.....	31.3	33.3	43.7	55.9	65.2	74.1	78.0	76.2	69.7	57.3	44.6	34.7	55.3

TABLE 21.—MAXIMUM AND MINIMUM TEMPERATURES: CENTRAL-SOUTHERN DISTRICT

County	Station	Length of record <i>years</i>	Average annual maximum	Average annual minimum	Average daily maximum	Average daily minimum	Maximum for period <i>year</i>	Minimum for period <i>year</i>
Bond.....	Greenville.....	26	99.0	- 6.6	77.7	24.1	113 1901	1905 -21
Clay.....	Flora.....	17	99.0	-10.0	77.4	26.0	108 1901	1904 -25
Crawford.....	Palestine.....	25	98.6	- 8.0	77.3	27.5	105 1887	1899 -21
Crawford.....	Robinson.....	16	97.6	- 6.6	76.8	27.4	108 1901	1899 -20
Edwards.....	Albion.....	20	100.0	- 7.0	77.4	28.6	109 1901	1899 -21
Gallatin.....	Equality.....	15	101.0	- 5.8	79.9	31.7	105 1909	1899 -22
Hamilton.....	McLeansboro.....	23	101.0	- 5.6	78.5	29.8	105 1911	1899 } 1912 } -19
Jefferson.....	Mt. Vernon.....	18	101.0	- 5.0	....	....	112 1901	1899 -22
Lawrence.....	Sumner.....	5	100.0	- 8.8	78.4	29.7	108 1887	1910 -21
Perry.....	DuQuoin.....	6	102.0	- 7.0	79.3	30.4	135 1888 } 1911 }	1912 -22
Randolph.....	Sparta.....	15	99.8	- 8.3	78.3	29.2	105 1911	1912 -19
Richland.....	Olney.....	25	99.0	- 7.0	78.3	28.7	110 1893	1912 -21
St. Clair.....	Mascoutah.....	25	100.0	- 8.3	78.5	27.5	109 1901	1899 } 1904 } -20
St. Clair.....	St. Louis, Mo.....	60	100.0	- 3.6	79.5	28.2	102 1850	1864 -20
Wayne.....	Fairfield.....	8	98.7	- 8.6	80.3	30.3	108 1887	1912 -18
Average.....	.....	..	99.8	-7.1	78.4	28.5	....	....



TABLE 22.—AVERAGE MONTHLY AND ANNUAL TEMPERATURE: EXTREME SOUTHERN DISTRICT  
10-, 20-, AND 40-YEAR PERIODS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1876-1885.....	35.9	41.2	47.5	59.1	67.7	75.1	79.4	77.3	69.8	60.9	46.9	38.1	58.2
1886-1895.....	33.8	38.1	46.1	59.6	66.3	75.5	78.5	76.8	70.7	57.6	45.8	40.1	57.4
1896-1905.....	35.6	34.0	48.4	57.6	69.3	75.9	79.9	79.1	72.5	61.0	48.6	36.7	58.2
1906-1915.....	36.6	36.7	47.1	57.5	66.8	75.2	78.9	77.4	72.5	59.6	48.8	37.4	57.8
1876-1895.....	34.9	39.7	46.8	59.4	67.0	75.3	79.0	77.1	70.1	59.3	46.4	39.1	57.8
1896-1915.....	36.2	35.4	47.8	57.6	68.1	75.6	79.4	78.3	72.5	60.3	48.7	37.1	58.1
1876-1915.....	35.5	37.5	47.3	58.4	67.5	75.4	79.2	77.6	71.4	59.8	47.5	38.1	57.9

TABLE 23.—MAXIMUM AND MINIMUM TEMPERATURES: EXTREME SOUTHERN DISTRICT

County	Station	Length of record	Average annual maximum	Average annual minimum	Average daily maximum	Average daily minimum	Maximum for period	Minimum for period
Alexander.....	Cairo.....	32 <i>years</i>	96.0	- 8.0	79.0	33.0	106 <i>year</i> 1891	-14 1899
Johnson.....	New Burnside.....	18	100.3	- 6.6	79.3	31.5	104 1897 } 1899 }	-26 1912
Pope.....	Galeonda.....	16	98.7	- 1.0	79.1	30.8	104 1909	-16 1912
Union.....	Cobden.....	17	101.0	- 5.3	79.3	32.5	105 1899 } 1900 }	-19 1899
Average.....	.....	..	99.0	- 5.2	79.2	32.0	....	....

The average temperature for the district is 57.9 degrees, which is 10.7 degrees higher than the average for the extreme northern district. The average temperature for the winter months is 37 degrees; for spring, 57.8 degrees; for summer, 77.4 degrees; and for fall, 59.6 degrees. These temperatures are higher than those of the extreme northern district by 15.2 degrees in winter, 11.4 degrees in spring, 7.0 degrees in summer, and 9.3 degrees in the fall. The lowest recorded temperature was -26 degrees at New Burnside, in Johnson county, in 1912, while the highest was 106 degrees at Cairo in 1901, a range of 132 degrees. The greatest recorded range in any one place is 130 degrees at New Burnside. The greatest yearly range by monthly averages is 43.7 degrees.

The average annual maximum temperature for the district is 99.0 degrees, and the minimum -5.2 degrees, a range of 104.2 degrees. The lowest annual temperature was 55.4 degrees for 1886, and the highest was 59.8 degrees for 1900 (see Appendix, page 125).

The average dates for the latest and the earliest killing frosts in spring and fall are April 14 and October 24, thus giving a growing season of 193 days. This is thirty-two days longer than the growing season of the extreme northern district.

The average daily maximum temperature is 18 degrees higher in the extreme southern than in the extreme northern district, for January and February, but only 2 degrees higher for July and 4 degrees for August.

#### TEMPERATURE OF SOIL

The temperature of the soil is a very important factor, not only in plant growth as usually manifest, but also in the biological activities taking place in the soil, by which nitrification proceeds. It is dependent upon: (1) the moisture content of the soil, (2) the color, (3) the compactness, (4) the vegetative covering, and (5) the inclination of the surface of the soil to the sun's rays. It is not necessary to discuss each of these factors separately, and further, it would be difficult to say which is of the greatest importance. Under varying conditions each may in turn be the factor of greatest influence.

The average monthly temperature of the soil to a depth of 1 to 3 inches is always higher than that of the air above it.

Table 24 shows the annual maximum and minimum temperatures of soil at various depths as recorded for sixteen years at this station. It will be noted that in only three winters out of the sixteen recorded did the temperature of the soil at a depth of 12 inches fail to reach as low as 32 degrees, or the freezing point. From this fact it is evident that during most winters the soil freezes deeper than 12 inches.



TABLE 24.—MAXIMUM AND MINIMUM TEMPERATURES OF AIR, AND OF SOIL AT DIFFERENT DEPTHS  
ILLINOIS AGRICULTURAL EXPERIMENT STATION AT URBANA

Year	Air		1 inch		3 inches		6 inches		9 inches		12 inches		24 inches		36 inches	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1901.....	104	-15	108	8	97	16	86.5	32	83.5	32	80	32	....	....	71	37.5
1902.....	92	-14	103	6	95	22	85.5	30	82.5	32	78.5	32.5	....	....	70	37
1903.....	96	-17	89.5	16	89	18	89	24	79	29	76.5	31.5	....	....	68.5	39
1904.....	92	-15	88	15	82	....	78	22	77	25	75	28	....	....	66	36.5
1905.....	97	-24.5	95	5	87	11	81	15	79.5	....	76	23	....	....	68	35
1906.....	94	-7	99	....	92	....	83	28	78	28	....	32	....	....	69	38.5
1907.....	93	-3	91	19	84	23	79.5	30	77.5	31	75.5	32.5	....	....	67.5	39
1908.....	94	-13	91	21	85	22	80	....	79	30	78	31.5	....	....	67	38
1909.....	95	-12	99	18	90	18	85	20	83	27	76.5	30	....	....	69.5	39.5
1910.....	102	0	100	20	97	21	88	25	85	27	80	31	....	....	69	39.5
1911.....	95	-22.5	90	15	86	17	81	21	79	25	78	27	71	....	69	36
1912.....	103	-9	96.5	23	95	22	....	23	....	27	79.5	30	71	....	69.5	38
1913.....	99	-13	96	27.5	93.5	27.5	....	....	....	....	77.5	31.5	71.5	36	69	37.5
1914.....	90	-15	85.5	23	85	23.5	....	....	....	....	76	29	70	35.5	67	38
1915.....	101	-9	99.5	19.5	100	19	85.5	....	....	....	79	28.5	74	36	70.5	38
1916.....	96	-12	95.1	17.1	90.3	20.2	83.5	24.9	80.3	28.4	77.5	30.2	71.5	35.7	68.6	37.8

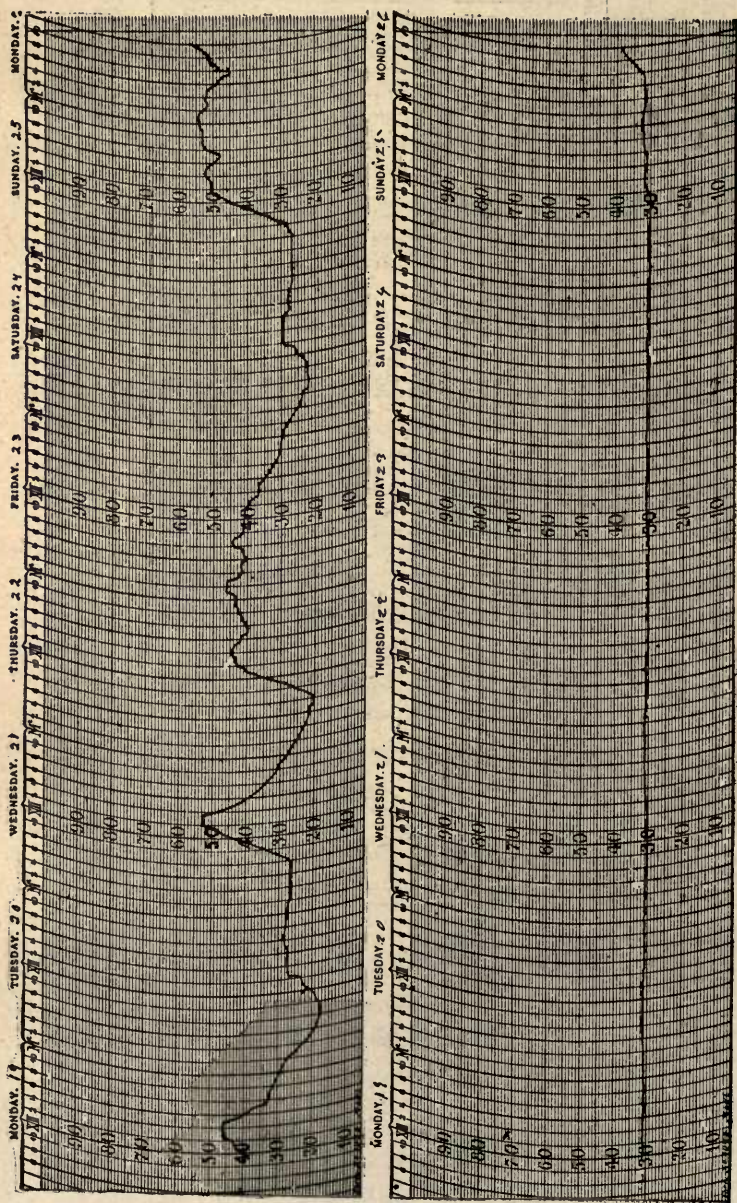


FIG. 13.—UPPER GRAPH: RECORD OF AIR TEMPERATURE MADE BY RECORDING THERMOMETER (THERMOGRAPH) FROM NOON, FEBRUARY 19, TO NOON, FEBRUARY 26, 1917. LOWER GRAPH: RECORD OF TEMPERATURE OF SOIL THREE INCHES DEEP MADE DURING THE SAME PERIOD



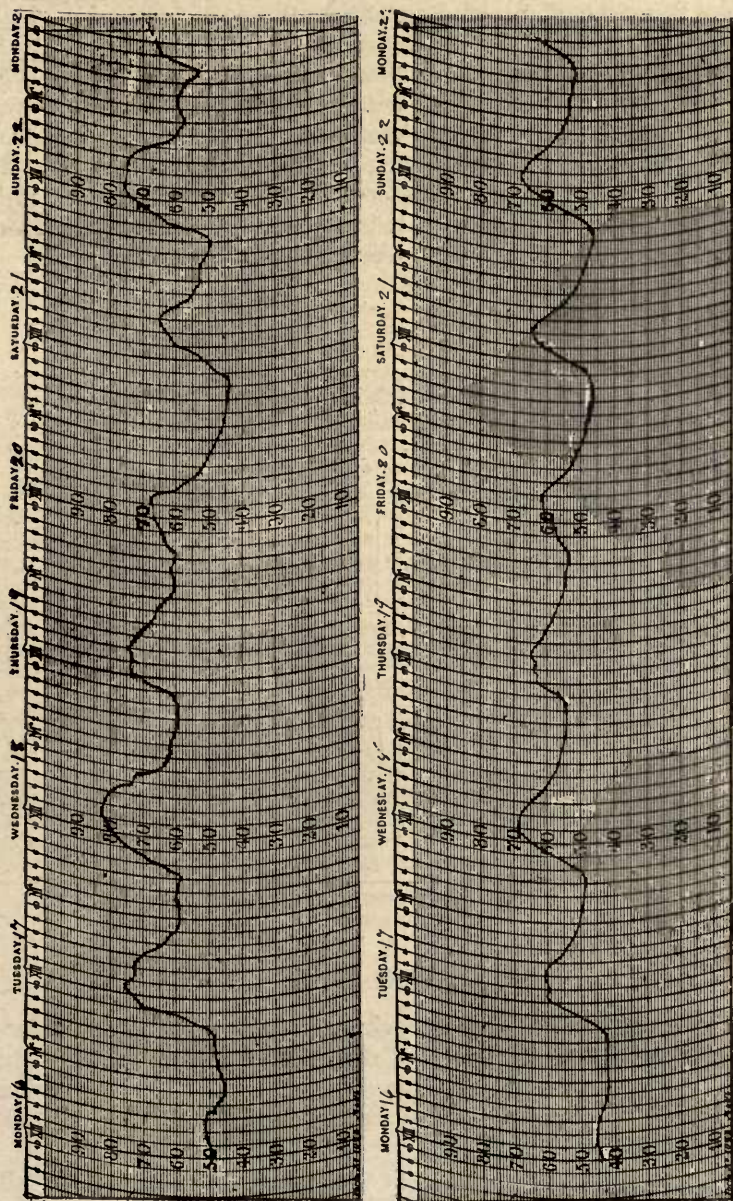


FIG. 14.—UPPER GRAPH: RECORD OF AIR TEMPERATURE MADE BY A RECORDING THERMOMETER (THERMOGRAPH) FROM NOON, APRIL 16, TO NOON, APRIL 23, 1917. LOWER GRAPH: RECORD OF TEMPERATURE OF SOIL THREE INCHES DEEP DURING THE SAME PERIOD

The lowest temperature for the 12-inch depth was 23 degrees in 1905. The 24-inch thermometer was not used until 1912, but since that time the lowest temperature recorded at that depth was 35.5 degrees; which fact would indicate that frost reaches but little beyond the 12-inch depth. The winter having the deepest frost penetration was in 1905, when the lowest temperature recorded by the 36-inch thermometer was 35 degrees, and of the 12-inch thermometer 23 degrees. (In February, 1917, the 24-inch thermometer reached 32 degrees, and the 12-inch 24.5 degrees. The soil, therefore, must have frozen to a depth of 24 inches at least, from which it is evident that in 1905 the frost must have penetrated to an even greater depth.)

Table 25 gives the temperature of soil at different depths by monthly averages.

TABLE 25.—AVERAGE MONTHLY TEMPERATURE OF SOIL AT DIFFERENT DEPTHS  
ILLINOIS AGRICULTURAL EXPERIMENT STATION, URBANA  
(The average air temperature of the same place is given for comparison)

Ten-Year Average: 1897-1906												
Depth	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Air.....	26.2°	22.6°	37.3°	49.5°	62.6°	70.0°	74.7	72.8	66.0	54.8	39.8	27.7
1 inch.....	26.9°	27.3°	40.1°	51.1°	64.1°	73.3°	79.4°	76.6°	70.1°	56.4°	41.1°	30.2°
3 inches.....	30.5°	29.5°	39.6°	50.2°	62.5°	72.8°	78.5°	76.4°	69.7°	57.9°	42.3°	32.3°
6 inches.....	32.6°	30.7°	38.7°	49.2°	61.8°	70.9°	76.8°	75.5°	69.8°	58.3°	44.1°	34.7°
9 inches.....	33.2°	33.2°	39.2°	48.7°	60.7°	70.4°	75.8°	75.2°	69.3°	58.8°	45.8°	35.8°
12 inches.....	34.0°	33.1°	38.8°	48.2°	59.3°	68.1°	74.5°	73.7°	68.6°	59.0°	46.5°	37.0°
36 inches.....	40.9°	38.3°	40.0°	45.8°	54.3°	61.1°	66.3°	68.0°	66.4°	61.3°	53.6°	45.5°
Ten-Year Average: 1907-1916												
Air.....	27.6	28.1	39.2	50.8	62.3	71.3	76.3	73.8	66.2	54.1	42.0	29.5
1 inch.....	31.5	31.7	39.6	51.0	62.0	72.0	77.0	75.9	68.0	54.6	43.3	34.0
3 inches.....	31.6	31.8	39.4	51.0	61.8	71.7	77.1	75.3	68.2	55.7	43.7	34.5
6 inches.....	32.7°	32.3°	39.9°	49.3°	59.3°	70.1°	74.9°	74.1°	67.9°	55.7°	43.8°	35.2°
9 inches.....	33.3°	32.9°	39.3°	48.8°	59.0°	68.5°	73.6°	72.9°	68.0°	56.1°	44.5°	36.3°
12 inches.....	33.9	33.3	38.4	48.7	58.4	67.8	73.0	72.6	67.9	57.0	45.9	37.8
24 inches <sup>4</sup> .....	37.6	37.1	38.6	47.1	55.4	62.6	68.5	69.7	66.7	59.5	50.6	42.7
36 inches.....	41.2	39.2	40.2	46.3	53.0	59.5	65.8	67.7	65.8	60.1	52.5	46.0

°Four-year average.

°Five-year average.

°Six-year average.

°Seven-year average.

°Eight-year average.

°Nine-year average.

## FROST

The times of killing frosts in spring and autumn are very important, as they determine the length of the growing season. From data collected it has been found that the average date of the last killing frost in spring and the first in autumn, for each district in the state, is as recorded in Table 26.

The growing season is nearly two weeks longer in the central than in the extreme northern district, while in the extreme southern district it is nearly three weeks longer than in the central. The average length of the growing season for the northern tier of counties is 161



days, while that of the seven southern counties is 193 days, or nearly five weeks longer. Observations in cities of some size show that the last killing frost in spring is earlier and the first in fall later than in country districts.

TABLE 26.—AVERAGE DATE OF KILLING FROSTS IN ILLINOIS

District	Last in spring	First in autumn	Number of days in growing season
Extreme northern.....	May 4	October 12	161
Central-northern.....	May 2	October 15	166
Central.....	April 26	October 16	173
Central-southern.....	April 15	October 20	188
Extreme southern.....	April 14	October 24	193

The latest killing frosts in spring recorded for northern Illinois were on June 9, 1901, in Winnebago and Carroll counties; on May 27, 1915, at Dakota in Stephenson county; and on May 31, 1897, over this district generally. The earliest killing frosts in fall were reported at Dakota, August 30, 1915, and at Lanark, September 12, 1902. The earliest general killing frost for this section was on September 18, 1901.

In central Illinois the latest killing frost in spring was recorded at Philo, Champaign county, on May 31, 1897, while Springfield recorded one on May 29, 1882. A somewhat general killing frost occurred on May 24, 1892. The earliest killing frost in fall for this section was recorded at Springfield on September 13, 1890, and one of rather general occurrence was recorded on September 18, 1901.

For southern Illinois the latest killing frost in the spring was on May 31, 1894, while the latest general one at this season was on May 14, 1895. The earliest in fall was on September 14, in 1902, while a general one occurred on September 30, 1899,

## WIND

Illinois lies in the belt of the prevailing westerly winds, in which the general atmospheric movement is from west to east; yet the presence of the cyclones and anticyclones causes great variation both in direction and in velocity.

## DIRECTION

In Table 27 is shown the wind direction as determined for seasons rather than for months. The effect of Lake Michigan in modifying the direction of the wind places a small area of northeastern Illinois in a region by itself, which may be designated as the lake-breeze area. In this section the wind blows from the northeast during 40.8 percent of the time in the spring and 37.5 percent of the time in the summer months, while during the fall and winter months it blows from the west and the south.

TABLE 27.—TIME DURING WHICH WIND BLOWS FROM DIRECTION INDICATED  
(Expressed in percentage)

Winter: December, January, and February								
District	N	NW	W	SW	S	SE	E	NE
Extreme northern.....	1.4	56.3	18.2	15.8	7.3	.7	.0	.3
Central-northern.....	1.3	47.0	19.6	24.2	3.6	1.5	.3	2.5
Central.....	2.7	46.8	10.0	18.4	13.9	5.5	1.2	1.6
Central-southern.....	11.3	37.6	9.3	14.1	18.4	6.0	.4	2.9
Extreme southern.....	36.5	11.8	4.7	5.9	32.9	4.6	.0	3.6
Spring: March, April, and May								
Extreme northern.....	4.9	41.3	5.3	14.6	14.7	8.1	5.3	5.8
Central-northern.....	5.2	23.0	5.8	29.5	7.4	9.1	5.8	14.2
Central.....	4.6	25.4	5.0	18.0	19.7	15.6	5.1	6.6
Central-southern.....	6.4	17.2	6.9	18.2	30.1	12.7	1.8	6.7
Extreme southern.....	13.1	6.5	1.3	5.7	65.0	2.0	1.4	5.0
Summer: June, July, and August								
Extreme northern.....	4.0	17.5	4.3	33.6	19.4	12.2	2.7	6.3
Central-northern.....	1.8	9.7	1.7	42.9	10.5	10.3	9.3	13.8
Central.....	2.0	6.8	4.0	43.4	20.7	11.1	4.4	7.6
Central-southern.....	2.8	2.5	4.1	38.5	32.0	10.4	3.1	6.6
Extreme southern.....	4.6	.4	1.3	14.9	67.4	2.8	4.5	4.1
Autumn: September, October, and November								
Extreme northern.....	3.3	25.4	5.9	36.6	21.4	6.4	.0	1.0
Central-northern.....	.7	17.9	8.0	41.3	18.3	8.9	2.0	2.9
Central.....	2.5	17.5	6.2	31.0	23.9	14.3	1.7	2.9
Central-southern.....	8.3	17.4	4.2	25.5	27.7	9.8	1.8	5.3
Extreme southern.....	20.3	7.8	3.0	3.1	53.2	3.3	4.7	4.6
Average for Year								
Extreme northern.....	3.4	35.1	8.4	25.2	15.7	6.9	2.0	3.3
Central-northern.....	2.3	24.4	8.8	34.5	9.9	7.4	4.3	8.4
Central.....	2.9	24.2	6.3	27.7	19.5	11.6	3.1	4.7
Central-southern.....	7.2	18.7	6.1	24.1	27.1	9.7	1.8	5.3
Extreme southern.....	18.6	6.6	2.6	7.4	54.6	3.2	2.7	4.3



## VELOCITY OF AIR MOVEMENT

The data regarding wind velocity have been obtained from the published records of the stations of the Weather Bureau within the state and the five along the Mississippi river. The anemometer, the regular Weather Bureau instrument, is used for determining the velocity of the air movement, but comparisons of the data of the various stations are very unsatisfactory because of the varying heights of the instruments above the ground or above the buildings surrounding them. They vary in height from 70 feet to over 200 feet above the ground.

The velocity of the wind is greatest during November, December, January, February, March, and April, when the average hourly velocity is 10.4 miles; while May, June, July, August, September, and October have the least atmospheric movement, 8.0 miles per hour. March and April are the windiest months, while July and August have the least wind movement. The season of greatest wind velocity is very significant to the farmer because of the resulting increased evaporation. Table 28 gives the velocity for the three divisions of the state.

TABLE 28.—VELOCITY OF AIR MOVEMENT  
(Miles per hour)

Division	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Aver.
Northern..	9.9	10.4	10.9	11.1	9.8	8.2	7.7	7.1	8.4	9.1	10.0	10.0	9.4
Central....	9.6	10.1	10.2	10.4	8.9	7.6	6.8	6.4	7.3	8.2	9.4	9.6	8.7
Southern..	10.9	11.4	11.6	11.1	9.4	8.0	7.5	7.0	7.6	8.4	10.2	10.6	9.5
Average.	10.1	10.6	10.9	10.9	9.4	7.9	7.3	6.8	7.8	8.6	9.9	10.1	9.2

At the surface of the earth the air movement is much less than at a height of even a few feet, yet it is sufficient to play a very important part in increasing the amount of evaporation from the surface soil. Experiments have shown that when the air movement is 5 miles per hour, the amount of evaporation is increased 2.2 times over what it is during a calm; when 10 miles per hour, 3.8 times; when 15 miles, 4.9 times; when 20 miles, 5.7 times; when 25 miles, 6.1 times; and 30 miles per hour increases the evaporation 6.3 times. The effect of a windbreak on evaporation has been shown by an experiment in which it was determined that at 150 feet from a hedge the evaporation was 21.3 percent greater than at 20 feet, and at 300 feet, 30 percent greater.

The effect of a crop in preventing evaporation from the surface of the soil, thru the holding of a stratum of air possessing little movement and consequently becoming highly charged with moisture, is very striking. Hay and small grain crops are especially influential

in this respect. In oat fields of heavy growth, the dew on the lower parts of the plants will not evaporate sometimes until nine or ten o'clock in the morning, and it begins to be deposited at four or five o'clock in the afternoon. On June 29, 1916, the relative humidity in a field of oats two inches above the soil and at the same height in the open, was determined during the day. The mean relative humidity in the oats was 80.4 percent, while in the open it was 53.4 percent, or a difference of 27 percent. This difference was due to shading and to lack of air movement in the oats. At six inches above the oats, the relative humidity was 58.6, and the average wind velocity was 3.2 miles per hour, while in the oats no movement occurred. It has been determined that for low wind velocity the increased evaporation rate due to wind is .5 percent per day for each mile of wind.

Air movement not only increases the evaporation from the soil, but also the amount of transpiration, or exhalation, of water from the leaves of the plant.



## SUNSHINE AND CLOUDINESS

The amount of sunshine needed in the growth of crops varies somewhat with the crop, but all our principal cereals require sunshine during a large part of the time. Rather strong light is needed for the formation of starch.

December, January, February, March, and April are the cloudy months of the year, having sunshine for only 45.6 percent of the time possible, while the other months have sunshine for 56.4 percent of the time. August has the greatest amount of sunshine, 60.6 percent, while December has least, 42.3 percent. The extreme southern part of the state has the least amount of sunshine for the year, 47.7 percent. December and January in this district have only 39.3 percent.

TABLE 29.—AVERAGE AMOUNT OF SUNSHINE BASED ON AMOUNT OF POSSIBLE SUNSHINE  
(Expressed in percentage)

District	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Aver.
Extreme northern.	50.0	49.0	47.1	50.7	51.0	54.4	61.2	57.8	55.2	49.3	57.3	42.0	52.1
Central-northern.	42.7	45.2	45.3	48.9	53.1	57.1	62.9	61.3	58.6	56.3	45.8	40.5	51.4
Central.....	47.3	47.0	45.2	48.6	52.1	54.6	59.7	62.7	60.4	61.1	54.8	45.7	53.3
Central-southern.	46.8	47.5	48.8	52.8	56.7	58.5	62.3	63.4	62.0	63.4	55.0	44.1	55.1
Extreme southern.	39.3	41.3	40.5	44.0	47.4	46.6	53.1	57.8	57.2	59.5	46.6	39.3	47.7
Average.....	45.2	46.0	45.4	49.0	52.1	54.2	59.8	60.6	58.7	57.9	51.9	42.3	51.9

Sunshine increases, not only the amount of evaporation from the soil, but also largely the loss of moisture from the leaves of plants by transpiration. When the soil is shaded, the loss of water by evaporation is checked. A soil shaded by dry rye plants evaporated 13.9 percent less than the same soil not so shaded.

## RELATIVE HUMIDITY

The relative humidity is the percentage of moisture actually present in the air as compared with the amount which the air is capable of holding in vapor form. The relative humidity is lowered by a rise of temperature and increased by a lowering of temperature. A lowering of temperature causes deposition of dew. On the other hand, when clouds prevent the necessary lowering of temperature there is no dew.

At the Illinois Experiment Station the mean humidity for November, December, January, February, and March is 83.5 percent, while for the other months it is 74.2 percent, or 9.3 percent less.<sup>1</sup> The year 1911 had the lowest relative humidity of any year during which the humidity record has been kept at the University of Illinois. The mean humidity for May, June, July, and August of that year was 56 percent, and for the entire year 67.8 percent.

<sup>1</sup>See Appendix, page 64.





## APPENDIX

NOTE.—The detailed data with regard to precipitation and temperature appearing on pages 67 to 125 are taken from the published records of the United States Weather Bureau. Altho data for 1916 are included in the tables giving the precipitation for the various stations, the tables in the main part of the bulletin and the statements in the text take into account the records only so far as 1915.





**METEOROLOGICAL SUMMARY FOR THE ILLINOIS AGRICULTURAL  
EXPERIMENT STATION AT URBANA: 1889 TO 1916**

1889	TEMPERATURE			Rain- fall in inches	Mean rela- tive humid- ity	Prevailing wind direction	No. of clear days	No. of partly cloudy days	No. of cloudy days
	Max.	Min.	Mean						
January...	57	-2	29.3	1.48	79.1	sw.	6	13	12
February..	53	-7.5	23.4	2.08	78.7	sw. & nw.	7	17	4
March.....	72	18	39.9	1.61	78.5	nw.	10	15	6
April.....	75	25	51.9	.61	69.7	ne. & nw.	8	18	4
May.....	91	28	59.2	5.52	74.9	sw.	1	24	6
June.....	88	40	65.5	6.81	79.3	sw.	4	22	4
July.....	90.5	50	72.7	5.81	80.0	s.	8	20	3
August....	89	29.5	69.2	.60	78.2	s.	..	..	..
September.	87.5	32	61.3	2.74	80.1	sw.	7	15	8
October....	82	25	47.3	1.42	75.2	nw.	15	12	4
November..	62	4	36.8	4.38	83.4	nw.	6	10	14
December..	66	15	42.7	1.82	82.6	sw.	8	15	8
Total.....	.....	.....	.....	34.88	.....	.....	80	177	73
Average....	76	21	49.9	2.91	78.3	sw.	7.3	16.1	6.6
<b>1890</b>									
January...	66	-5	33.5	5.26	88.0	nw.	6	15	10
February..	68	7	34.7	1.87	85.6	sw. & nw.	6	12	10
March.....	61	2	33.4	2.70	79.2	nw.	8	16	7
April.....	81	29	52.3	4.11	73.1	ne.	10	15	5
May.....	83	33	58.3	3.56	72.2	sw.	14	14	3
June.....	96	47	74.6	3.80	77.4	sw.	13	16	1
July.....	97.5	45	73.0	2.83	77.9	ne.	17	13	1
August....	96	44.5	68.7	1.93	71.9	nw.	15	15	1
September.	89	33	60.5	1.19	76.8	ne.	6	20	4
October....	76	27	52.1	2.35	79.2	nw.	3	21	7
November..	68	21	42.6	1.63	74.6	nw.	10	12	8
December..	58	8	30.9	.05	75.1	nw.	7	17	7
Total.....	.....	.....	.....	31.28	.....	.....	115	186	64
Average....	78.2	24.6	51.2	2.6	77.6	nw.	9.7	15.5	15.3
<b>1891</b>									
January...	57	6	30.3	.99	84.7	sw.	6	10	15
February..	61	-9	30.5	2.60	81.5	nw.	6	11	11
March.....	65	-1	32.6	3.55	84.9	ne. & nw.	4	16	11
April.....	81	22	52.8	3.54	79.5	nw.	8	18	4
May.....	91	30	58.4	.89	70.0	ne.	12	14	5
June.....	93	49	71.9	2.08	78.5	sw.	9	15	6
July.....	93	42	70.1	1.41	79.6	sw.	11	18	2
August....	99	40	70.2	2.86	74.0	nw.	2	27	2
September.	96	41	69.2	.41	66.0	s.	6	23	1
October....	88.5	27	51.3	1.29	72.9	s.	13	17	1
November..	67	2	35.7	5.58	83.1	s.	6	13	11
December..	60	11	37.0	1.53	79.2	s.	8	17	6
Total.....	.....	.....	.....	26.73	.....	.....	92	199	75
Average....	79.3	21	50.8	2.22	77.8	s., sw.	7.6	16	6.1

## METEOROLOGICAL SUMMARY FOR THE EXPERIMENT STATION—Continued

1892	TEMPERATURE			Rain-fall in inches	Mean rela- tive humid- ity	Prevailing wind direction	No. of clear days	No. of partly cloudy days	No. of cloudy days
	Max.	Min.	Mean						
January...	57	-15	19.2	.79	82.9	s.	6	20	5
February...	55	..	33.0	2.64	87.6	s.	2	14	13
March.....	69	..	36.1	2.59	82.1	sw.	3	22	6
April.....	70.5	26	48.6	6.45	77.4	nw.	3	24	3
May.....	82	36	57.9	7.86	81.1	sw.	1	23	7
June.....	94	51	70.6	5.36	82.1	sw.	8	20	2
July.....	96.5	46	73.3	2.50	80.4	s.	4	24	3
August....	94	47	71.5	2.45	81.1	w.	10	18	3
September.	87	42	63.9	.93	76.3	s.	14	15	1
October....	88.5	19	53.6	.93	70.5	s.	9	20	2
November..	64	7	34.8	4.95	83.7	s.	7	16	7
December..	60	-7	27.7	1.62	86.7	s.	4	16	11
Total.....	.....	.....	.....	39.05	.....	.....	71	232	63
Average...	76.4	..	49.1	3.25	81.0	s.	5.9	19.3	5.3
1893									
January...	48	..	14.8	1.05	86.1	nw.	4	17	10
February...	51	..	25.8	4.48	87.5	nw.	5	14	9
March.....	76	..	37.8	3.20	79.6	s.	2	22	7
April.....	75	30	49.3	7.68	76.0	s.	1	19	10
May.....	84	37	57.4	4.83	75.6	n. & sw.	4	24	3
June.....	93	53	70.5	1.55	70.5	s.	6	18	6
July.....	98	48	76.4	.59	71.9	s.	1	29	1
August....	96	37	71.1	.06	66.8	n.	11	19	1
September.	97	31	66.5	3.62	58.6	w.	4	19	7
October....	84	18	53.3	1.14	77.4	s.	9	18	4
November..	75	6	37.3	2.98	84.8	s.	6	16	8
December..	63	-6	30.0	1.09	84.4	s.	0	18	13
Total.....	.....	.....	.....	32.37	.....	.....	53	223	79
Average...	78	..	49.1	2.69	76.6	s.	4.4	19	6.5
1894									
January...	64	-21	29.4	1.95	84.4	s.	3	18	10
February...	58	-5	24.7	1.32	81.2	w.	1	19	8
March.....	77	10	43.5	2.41	83.5	s.	4	21	6
April.....	85	25	51.4	1.86	78.6	s.	1	22	7
May.....	89	32	59.6	3.32	80.7	s.	3	25	3
June.....	97	34	73.4	1.78	75.4	s.	5	24	1
July.....	98	47	73.8	1.08	68.9	s.	4	27	0
August....	99	41	72.3	2.06	72.2	w.	6	25	0
September.	94	38	65.0	4.21	84.6	s.	10	15	5
October....	84	28	51.9	.51	79.7	s.	5	21	5
November..	67	12	35.9	2.77	84.2	s.	3	18	9
December..	59	-4	32.9	1.44	86.2	s.	6	17	8
Total.....	.....	.....	.....	24.72	.....	.....	51	252	62
Average...	81	19.7	51.1	2.06	79.9	s.	4.2	21	5.1



## METEOROLOGICAL SUMMARY FOR THE EXPERIMENT STATION—Continued

1895	TEMPERATURE			Rain- fall in inches	Mean rela- tive humid- ity	Prevailing wind direction	No. of clear days	No. of partly cloudy days	No. of cloudy days
	Max.	Min.	Mean						
January...	57	-2	29.2	1.36	93.3	nw.	9	14	8
February...	53	7.5	23.3	.52	91.7	nw.	8	17	3
March.....	84	7	35.9	.70	83.3	nw.	7	17	7
April.....	88	27	52.3	2.42	78.0	ne.	7	17	6
May.....	95	28	59.4	2.20	71.2	s.	14	16	1
June.....	98.5	42	73.3	2.24	67.0	s.	10	18	2
July.....	94	43	71.3	3.61	75.8	s.	5	22	4
August....	97	48	73.2	1.81	72.2	s.	6	21	4
September.	87.5	32	61.3	5.27	75.0	s.	12	15	3
October....	82	25	47.2	.21	65.2	nw.	14	15	2
November..	62	4	36.8	3.07	81.1	s.	3	14	13
December..	66	15	42.7	5.71	87.5	s.	2	13	16
Total.....	.....	.....	.....	29.12	.....	.....	97	199	69
Average...	80.3	18.7	55.1	2.42	78.4	s.	8	16	5.7
1896									
January...	52	-5	28.1	1.12	89.6	s.	2	13	16
February...	68	-4	29.6	1.95	81.8	sw. & nw.	3	14	12
March.....	67	6	34.4	1.22	83.0	nw.	5	19	7
April.....	86	21	57.6	1.89	70.6	sw.	10	19	1
May.....	91	45	68.2	5.62	76.2	s.	7	19	5
June.....	92	49	70.2	2.98	78.4	s.	1	24	5
July.....	95	49	73.8	7.87	76.3	s.	5	19	7
August....	97	44	72.0	3.74	80.0	s.	12	17	2
September.	91	30	61.9	5.84	81.4	s.	5	14	11
October....	79	24	48.8	.42	78.6	n.	18	9	4
November..	74	9	39.9	2.87	87.9	s.	6	13	11
December..	62	8	33.3	.39	87.0	sw.	3	20	8
Total.....	.....	.....	.....	35.91	.....	.....	77	200	89
Average...	79	23	51.4	2.92	80.9	s.	6.4	16	7.4
1897									
January...	59	-15	22.0	4.53	95.0	nw.	10	10	11
February...	59	-2	30.0	1.17	90.0	nw. & n.	3	16	9
March.....	66	20	40.0	4.10	88.0	se.	3	17	11
April.....	79	21	48.0	3.69	82.0	sw.	3	14	13
May.....	83	31	58.0	1.81	77.0	nw.	6	21	4
June.....	93	44	69.5	5.16	79.0	se.	1	7	22
July.....	98	53	75.8	4.68	80.0	w. & nw.	10	12	9
August....	97	42	70.0	.63	79.2	nw.	13	16	2
September.	97.5	32	69.4	.31	68.5	sw.	24	5	1
October....	92	32	59.1	.42	71.0	s. & se.	20	8	3
November..	69	11	39.5	4.91	86.8	nw.	9	10	11
December..	59	1	26.3	2.67	93.7	nw.	2	16	13
Total.....	.....	.....	.....	34.08	.....	.....	104	152	109
Average...	79.3	22.5	50.6	2.84	82.5	nw.	8.7	12.5	9.1

## METEOROLOGICAL SUMMARY FOR THE EXPERIMENT STATION—Continued.

1898	TEMPERATURE			Rain- fall in inches	Mean relative humid- ity	Prevailing wind direction	No. of clear days	No. of partly days	No. of cloudy days
	Max.	Min.	Mean						
January...	62	5	30.8	4.77	87.7	w.	6	11	14
February..	65	-6	30.3	1.43	94.2	nw.	3	7	18
March.....	69	15	39.4	7.76	90.2	nw.	6	17	8
April.....	79	22	48.5	2.71	77.3	nw.	3	20	7
May.....	82	38	61.5	5.65	83.3	sw.	4	16	10
June.....	90	49	73.6	6.08	80.5	sw.	8	17	5
July.....	96	47	76.9	1.89	78.0	sw.	13	6	12
August....	94	53	74.0	3.61	84.0	sw.	9	18	4
September..	94	45	68.2	5.13	85.3	sw.	4	21	6
October....	86	40	51.4	4.53	86.9	s.	4	17	10
November..	68	..	36.1	3.01	88.8	sw.	11	11	8
December..	55	..	26.8	1.86	96.0	nw.	10	16	5
Total.....	.....	.....	.....	48.43	.....	.....	81	177	107
Average...	78.3	..	51.5	4.03	86.0	sw.	6.7	14.7	8.9
1899									
January...	53	-12	25.5	1.97	96.4	sw.	5	19	7
February..	58	-25	18.4	2.33	96.4	sw.	6	16	6
March.....	65	-2	32.4	1.78	94.1	nw.	5	10	16
April.....	90	15	53.1	.50	89.3	sw. & s.	5	20	5
May.....	86	42	63.8	6.09	82.5	sw.	3	19	9
June.....	93	50	71.4	2.29	78.3	s. & sw.	3	25	2
July.....	94	51	74.4	2.65	79.3	sw.	7	19	5
August....	96	49	75.3	2.29	77.2	sw.	15	11	5
September..	99	24	63.1	1.07	74.6	sw.	11	14	5
October....	87	29	57.2	5.10	78.0	sw.	6	17	8
November..	69	17	43.8	1.39	88.5	ne. & sw.	0	19	11
December..	60	-6	27.8	2.14	87.6	nw.	0	17	14
Total.....	.....	.....	.....	29.60	.....	.....	66	206	93
Average...	79.2	19.3	50.5	2.47	85.2	sw.	5.5	17.2	7.8
1900									
January...	61	-5	30.1	.17	92.9	w.	1	20	10
February..	63	-6	24.0	3.59	91.2	nw.	0	16	12
March.....	61	0	32.6	1.79	90.7	nw.	0	17	14
April.....	83	24	51.2	.84	74.9	ne.	3	16	11
May.....	89	33	63.3	4.60	74.6	sw.	1	24	6
June.....	90	47	69.3	4.11	82.1	ne.	0	21	9
July.....	93	51	74.2	3.81	79.4	sw.	2	5	24
August....	95	63	78.4	6.23	80.0	s.	4	26	1
September..	93	34	68.2	2.23	78.7	se. & sw.	1	24	5
October....	88	32	59.9	2.29	77.6	se.	1	25	5
November..	72	12	39.6	3.42	65.7	sw.	0	22	8
December..	58	1	29.9	1.00	73.9	sw.	2	21	8
Total.....	.....	.....	.....	34.08	.....	.....	15	237	113
Average...	78.8	23.9	51.7	2.84	80.1	sw.	1.2	19.7	9.4



METEOROLOGICAL SUMMARY FOR THE EXPERIMENT STATION—*Continued*

1901	TEMPERATURE			Rain- fall in inches	Mean rela- tive humid- ity	Prevailing wind direction	No. of clear days	No. of partly cloudy days	No. of cloudy days
	Max. 87.	Min.	Mean						
January...	61	-7	27.8	1.55	92.6	nw.	0	16	15
February...	47	-2	21.0	1.41	92.1	nw.	1	21	6
March.....	70	5	37.6	3.14	85.2	sw.	0	12	19
April.....	87	28	48.5	.80	72.7	se.	4	13	13
May.....	89	38	59.2	1.93	82.1	ne.	2	21	8
June.....	95	44	72.2	5.80	77.9	sw.	2	25	3
July.....	104	48	79.5	2.48	77.4	sw.	2	29	0
August....	101	54	73.8	1.68	69.7	ne.	2	26	3
September.	94	33	64.6	1.38	75.6	sw.	4	22	4
October...	88	29	53.5	4.10	76.4	sw.	6	19	6
November.	69	16	35.8	1.31	80.5	nw.	0	25	5
December..	60	-15	24.2	3.06	88.8	nw.	0	16	15
Total.....				28.64	....		23	245	97
Average...	80.4	22.7	49.8	2.39	80.9	sw.	1.9	20.4	8.1
1902									
January...	56	-7	25.7	.62	83.5	nw.	0	25	6
February...	48	-14	16.8	1.48	86.3	nw.	1	21	6
March.....	70	9	40.8	1.69	81.4	sw.	0	18	13
April.....	85	23	48.1	2.11	73.9	sw. & nw.	0	26	4
May.....	90	40	65.8	2.60	75.0	se. & sw.	2	25	4
June.....	92	45	68.4	11.73	78.1	sw.	1	21	8
July.....	91	50	74.6	4.02	77.1	sw.	13	14	4
August....	90	52	69.4	9.80	80.1	s.	6	19	6
September.	84	34	61.7	4.90	82.5	s.	3	15	12
October...	78	31	54.5	2.10	80.8	sw.	1	24	6
November.	75	14	46.6	2.42	83.0	sw.	0	18	12
December..	51	0	27.0	2.94	89.3	sw.	1	15	15
Total.....				46.41	....		28	241	96
Average...	75.9	23.1	49.9	3.87	80.9	sw.	2.3	20.1	8
1903									
January...	53	-12	23.8	1.04	92.9	nw.	4	12	15
February...	55	-17	25.6	2.40	96.0	sw.	0	13	15
March.....	76	15	44.2	1.43	85.0	sw.	2	22	7
April.....	80	19	50.8	5.71	75.5	sw.	2	20	8
May.....	86	26	64.0	3.95	71.4	sw.	3	20	8
June.....	90	40	65.5	2.56	75.3	sw.	2	24	4
July.....	96	54	74.8	5.13	72.2	sw.	3	23	5
August....	94	52	71.6	2.33	80.2	sw.	1	24	6
September.	90	35	65.6	.99	74.9	s. & sw.	10	19	1
October....	88	21	54.2	2.70	72.3	sw.	15	14	2
November.	68	8	36.1	2.06	87.4	s. & nw.	8	17	5
December..	45	-7	22.2	2.18	84.0	nw. & sw.	5	22	4
Total.....				32.48	....		55	231	80
Average...	77	20	49.8	2.70	80.6	sw.	4.5	19.2	6.6

The storm during the night of June 10 blew the rain gage over, but 0.75 inch is included, which was about the rainfall during the storm.

## METEOROLOGICAL SUMMARY FOR THE EXPERIMENT STATION—Continued

1904	TEMPERATURE			Rain- fall in inches	Mean rela- tive humid- ity	Wind		No. of clear days	No. of partly cloudy days	No. of cloudy days
	Max.	Min.	Mean			Aver- age velo- city <sup>1</sup>	Direc- tion			
January...	50	-15	17.9	3.09	88.1	...	nw.	4	18	9
February...	60	-11	21.7	1.86	81.7	12.6	nw.	3	20	6
March....	72	11	38.4	7.66	84.3	12.3	se.	5	18	8
April.....	80	22	45.2	3.97	72.9	12.4	ne.	8	18	4
May.....	87	38	61.2	1.60	68.4	9.4	se.	10	19	2
June.....	88	40	68.8	1.17	71.4	9.3	sw.	9	21	0
July.....	92	41	72.5	2.61	70.0	7.2	sw.	11	18	2
August....	91	46	70.3	3.55	69.3	6.7	sw.	13	16	2
September.	89	41	66.1	2.53	78.0	7.9	sw.	12	16	2
October...	81	28	53.0	.81	75.0	8.9	sw.	16	14	1
November.	69	14	42.2	T	79.4	8.4	sw.	13	15	2
December..	55	2	27.7	.83	74.0	11.8	sw.	7	17	7
Total.....	.....	.....	.....	29.68	...	...	...	111	210	45
Average...	76	21	48.7	2.47	76.0	...	sw.	9.2	17.5	3.7
1905										
January...	58	-11	19.2	1.80	88.6	10.1	n.	6	19	6
February...	49	-25	16.8	2.27	88.4	10.4	nw.	10	12	6
March....	77	20	44.0	.75	...	10.2	s.	..	..	..
April.....	83	26	50.6	2.95	...	10.1	w.	..	..	..
May.....	85	40	62.6	4.24	...	10.1	s.	6	25	0
June.....	97	46	71.1	1.30	...	7.6	s.	4	25	1
July.....	92	52	72.9	5.40	...	7.2	sw.	5	20	6
August....	94	54	74.7	2.14	...	6.6	s.	8	20	3
September.	93	46	67.4	2.88	...	7.4	s.	10	12	8
October...	86	27	52.3	3.11	...	8.2	sw.	15	9	7
November.	74	13	39.5	1.45	...	12.5	w.	9	16	5
December.	52	3	29.8	1.31	...	10.5	w.	11	14	6
Total.....	.....	.....	.....	29.60	...	...	...	..	..	..
Average...	78	24	50.0	2.46	...	8.4	s.	..	..	..
1906										
January...	67	2	32.3	1.65	...	12.4	..	6	14	11
February...	62	-7	27.4	1.11	...	10.0	..	11	11	6
March....	53	-5	29.0	4.61	...	12.8	..	6	6	19
April.....	84	26	54.1	2.23	...	10.1	..	18	8	4
May.....	88	30	62.2	3.31	...	9.5	..	14	16	1
June.....	93	46	68.9	3.08	...	9.5	..	11	15	4
July.....	92	52	73.2	2.16	...	...	..	12	19	0
August....	94	47	75.3	4.57	...	...	..	13	15	3
September.	91	48	69.1	2.45	...	...	..	13	13	4
October...	78	20	53.1	1.36	...	10.2	..	11	13	7
November.	70	20	40.2	4.59	...	...	..	7	13	10
December.	61	7	32.6	3.13	...	...	..	2	11	18
Total.....	.....	.....	.....	34.25	...	...	..	124	154	87
Average...	78	24	51.4	2.85	...	...	..	10.3	12.8	7.2

<sup>1</sup>Miles per hour.



## METEOROLOGICAL SUMMARY FOR THE EXPERIMENT STATION—Continued

1907	TEMPERATURE			Rain- fall in inches	Mean rela- tive humid- ity	Wind		No. of clear days	No. of partly cloudy days	No. of cloudy days
	Max.	Min.	Mean			Aver- age velo- city	Direc- tion			
January..	64	0	31.0	6.09	...	...	n.	4	6	21
February..	58	-3	28.9	.24	...	...	..	9	15	4
March....	85	21	46.6	3.34	...	...	s.	5	17	9
April.....	77	22	42.6	2.34	...	...	..	..	..	..
May.....	84	30	54.4	5.04	76.6	...	e.	10	11	10
June.....	90	42	66.7	5.56	75.7	...	n.	8	14	8
July.....	93	48	74.2	5.41	83.0	...	w.	5	19	7
August...	92	50	71.2	4.42	84.0	...	w.	5	20	6
September.	90	36	65.0	.94	80.1	...	nw.	14	10	6
October...	89	28	51.4	1.51	75.8	...	sw.	20	1	10
November.	60	16	37.8	1.99	78.8	...	w.	5	20	3
December.	62	13	32.1	3.32	88.7	...	w.	6	9	16
Total.....	.....	.....	.....	40.20	...	...	..	..	..	..
Average..	79	25	50.2	3.35	...	...	..	..	..	..
1908										
January..	52	2	28.8	1.21	82.4	11.0	sw.	13	7	11
February..	53	-2	27.2	4.09	87.1	12.4	e.	8	6	15
March....	76	24	43.0	3.20	81.9	10.8	sw.	10	19	2
April.....	78	20	50.3	5.00	79.8	11.4	sw.	8	10	12
May.....	85	34	61.8	7.83	81.2	10.7	sw.	2	23	6
June.....	92	41	69.2	1.99	72.2	9.2	sw.	3	26	1
July.....	94	50	73.9	2.31	74.2	6.4	sw.	5	24	2
August...	93	51	72.8	2.05	68.9	6.8	sw.	6	25	0
September.	93	33	69.1	1.95	68.4	7.3	se.	7	23	0
October...	86	27	54.0	.21	84.3	8.0	se.	9	19	3
November.	70	14	42.4	1.99	77.9	10.0	sw.	9	17	4
December.	62	4	32.0	1.44	76.3	9.9	sw.	3	24	4
Total.....	.....	.....	.....	33.27	...	...	..	83	223	60
Average..	78	25	52.0	2.77	77.9	9.5	sw.	6.9	18.5	5
1909										
January..	70	-2	28.4	2.17	90.1	10.5	nw.	0	20	11
February..	60	1	32.9	5.80	87.9	12.4	sw.	0	21	7
March....	63	14	38.1	1.76	80.0	11.1	nw.	0	28	3
April.....	80	22	49.2	7.44	80.0	12.1	w.	1	25	4
May.....	85	32	58.8	5.58	74.2	11.4	ne.	4	24	3
June.....	91	42	70.2	3.75	78.1	6.4	sw.	4	25	1
July.....	93	49	71.0	7.57	74.2	7.2	ne.	7	20	4
August...	94	50	75.4	2.37	68.9	5.7	ne.	10	21	0
September.	90	36	63.4	2.36	72.8	7.2	se.	9	20	1
October...	80	21	49.0	2.25	72.4	8.5	w.	10	18	3
November.	74	19	49.8	3.45	79.5	11.2	sw.	4	21	5
December.	60	-13	20.2	2.55	92.2	9.5	w.	3	19	9
Total.....	.....	.....	.....	47.05	...	...	...	52	262	51
Average..	78	22	50.5	3.92	79.2	9.4	w.	4.3	21.8	4.2

## METEOROLOGICAL SUMMARY FOR THE EXPERIMENT STATION—Continued

1910	TEMPERATURE			Rain-fall in inches	Mean rela- tive humid- ity	Wind		No. of clear days	No. of partly cloudy days	No. of cloudy days
	Max.	Min.	Mean			Aver- age velo- city	Dirrec- tion			
January...	47	-1	27.0	2.23	88.2	9.3	w.	2	21	8
February...	59	-12	25.2	1.79	79.8	10.3	s.	4	19	5
March.....	85	17	50.3	.38	66.9	9.8	sw.	11	18	2
April.....	84	23	52.0	1.57	70.9	10.3	sw.	6	18	6
May.....	79	34	57.0	5.35	71.2	9.3	ne.	1	28	2
June.....	95	38	69.6	2.99	64.9	6.8	ne.	4	25	1
July.....	93	34	74.8	2.76	74.3	6.9	sw.	9	19	3
August....	90	46	71.0	2.62	74.9	6.4	sw.	9	17	5
September..	87	41	65.9	4.14	78.3	6.9	s.	8	16	6
October...	83	21	57.0	1.34	70.3	7.1	sw.	14	14	3
November..	70	17	36.6	1.20	71.6	8.8	nw.	7	18	5
December..	46	4	25.6	1.59	76.7	9.9	nw.	8	15	8
Total.....	.....	.....	.....	27.96	....	...	...	83	228	54
Average...	76	22	51.0	2.33	74.0	8.5	sw.	6.9	19.0	4.5
1911										
January...	58	0	29.4	2.27	78.0	10.7	sw.	3	16	12
February...	69	11	33.7	1.19	78.6	10.3	w.	4	17	7
March.....	73	10	39.6	1.85	67.4	10.8	w.	8	20	3
April.....	72	26	48.5	3.50	70.3	10.7	se.	4	14	12
May.....	95	34	67.4	2.44	58.1	8.5	s.	11	19	1
June.....	98	50	74.4	.82	57.8	7.4	sw.	9	21	0
July.....	102	47	75.3	.62	51.8	6.9	sw.	12	19	0
August....	97	49	73.0	3.35	57.2	6.7	ne.	8	20	3
September..	90	43	67.8	8.90	70.1	7.0	sw.	4	16	10
October...	84	29	53.6	3.10	60.2	6.4	ne.	4	21	6
November..	75	9	35.0	2.83	77.0	11.0	...	1	21	8
December..	61	8	33.4	1.35	86.7	9.6	sw.	4	16	11
Total.....	.....	.....	.....	32.22	....	...	...	72	220	73
Average...	81	26	52.5	2.69	67.8	8.8	sw.	6.0	18.3	6.0
1912										
January...	42	-22	13.8	1.36	90.7	10.1	sw.	0	22	9
February...	49	-10	21.5	2.28	83.6	7.6	sw.	2	20	7
March.....	70	10	30.4	3.42	85.0	8.8	ne.	4	19	8
April.....	75	29	52.3	5.60	80.1	11.0	sw.	7	17	6
May.....	87	37	63.8	4.16	78.1	9.2	se.	5	21	5
June.....	88	41	67.4	1.89	70.8	6.5	sw.	6	19	5
July.....	94	55	74.2	3.68	82.5	7.2	s.	3	21	7
August....	92	47	71.4	2.06	80.2	7.0	sw.	5	23	3
September..	95	35	67.6	1.76	77.0	5.8	...	10	17	3
October...	85	28	56.1	2.95	73.9	7.7	s.	13	12	6
November..	72	16	41.8	1.77	76.5	10.0	sw.	9	15	6
December..	58	4	33.2	.57	75.9	10.8	sw.	9	16	6
Total.....	.....	.....	.....	31.50	....	...	...	73	222	71
Average...	75	22	49.4	2.62	79.5	8.5	sw.	6.0	18.5	5.9



METEOROLOGICAL SUMMARY FOR THE EXPERIMENT STATION—*Continued*

1913	TEMPERATURE			Rain- fall in inches	Mean rela- tive humid- ity	Wind		No. of clear days	No. of partly cloudy days	No. of cloudy days
	Max.	Min.	Mean			Aver- age velo- city	Dirrec- tion			
January...	58	3	30.8	5.38	80.5	10.0	s.	1	16	14
February...	64	-9	24.3	1.10	83.1	9.4	sw.	7	14	7
March.....	66	-1	37.0	5.99	81.6	13.0	s.	4	19	8
April.....	80	31	51.4	2.19	70.1	10.7	s.	6	17	7
May.....	89	33	63.0	.56	63.4	9.7	sw.	5	17	9
June.....	98	40	72.5	1.67	63.8	7.1	sw.	11	16	3
July.....	103	51	78.2	1.52	60.7	6.7	sw.	9	22	0
August....	100	55	77.5	1.44	59.7	6.7	s.	9	18	4
September.	98	37	69.6	2.50	66.0	7.4	e.	6	15	9
October...	82	26	52.8	4.03	73.8	7.2	sw.	8	16	7
November.	72	16	47.5	4.49	75.9	9.0	s.	5	10	15
December..	58	16	36.3	.77	83.5	7.0	sw.	7	5	19
Total.....	.....	.....	.....	31.64	.....	...	...	78	185	102
Average...	80	25	53.4	2.64	71.8	8.7	sw.	6.5	15.4	8.5
1914										
January...	64	8	33.6	1.97	82.6	10.4	sw.	2	12	17
February...	44	-1	20.4	2.50	85.1	7.6	ne.	3	18	7
March.....	68	8	37.1	.89	82.7	9.7	sw.	1	17	13
April.....	83	22	51.7	2.87	71.7	10.9	nw.	1	16	13
May.....	92	41	67.5	1.94	58.7	8.3	sw.	6	21	4
June.....	97	52	77.6	2.40	59.0	6.4	sw.	0	26	4
July.....	99	62	80.5	1.44	54.8	5.9	ne.	12	16	3
August....	95	60	76.4	2.65	63.1	6.7	sw.	4	23	4
September.	88	41	65.5	2.11	69.4	6.9	s.	10	16	4
October...	82	24	57.3	2.85	72.2	6.2	s.	10	11	10
November.	70	5	44.1	.80	63.4	8.9	sw.	8	19	3
December..	58	-13	22.1	2.25	85.9	8.8	ne.	1	12	18
Average...	.....	.....	.....	24.67	.....	...	...	58	207	100
Total.....	78	25	52.8	2.05	70.7	8.1	sw.	4.8	17.2	8.3
1915										
January...	49	-15	23.7	1.81	86.7	8.6	s.	6	9	16
February...	60	14	35.9	2.33	82.8	10.6	sw.	6	6	16
March.....	55	20	35.4	1.12	77.6	7.6	nw.	3	15	13
April.....	84	26	59.3	1.59	65.0	8.9	s.	12	11	7
May.....	86	39	60.5	5.11	72.3	8.9	sw.	6	6	19
June.....	86	43	70.6	2.98	70.2	7.0	ne.	4	18	8
July.....	90	50	74.1	7.30	73.1	5.9	sw.	1	24	6
August....	85	39	67.4	4.90	75.2	6.6	ne.	3	9	19
September.	88	42	67.9	2.58	76.5	6.3	s.	11	10	9
October...	80	31	56.3	.64	64.1	6.9	sw.	17	9	5
November.	79	12	44.2	1.02	71.1	10.5	w.	7	7	16
December..	46	6	29.0	2.85	83.7	8.2	nw.	3	6	22
Total.....	..	..	...	34.23	...	..	...	79	130	156
Average...	74	25	52.0	2.85	74.9	8.0	sw.	6.4	10.8	13.0

METEOROLOGICAL SUMMARY FOR THE EXPERIMENT STATION—*Concluded*

1916	TEMPERATURE			Rain-fall in inches	Mean rela- tive humid- ity	Wind		No. of clear days	No. of partly cloudy days	No. of cloudy days
	Max.	Min.	Mean			Aver- age velo- city	Direc- tion			
January...	61	-9	29.7	6.02	84.3	11.3	s.	9	3	19
February..	61	-7	26.6	.63	79.8	9.0	nw.	8	7	14
March....	77	1	37.4	1.14	79.0	10.7	n.	7	9	15
April.....	80	26	50.6	1.28	68.9	10.2	nw.	6	3	21
May.....	88	36	64.0	5.70	71.1	9.1	sw.	7	10	14
June.....	92	52	67.9	3.88	74.0	8.0	sw.	9	11	10
July.....	101	61	82.3	.47	61.9	5.2	ne.	24	4	3
August....	97	50	78.2	1.72	64.7	5.6	sw.	15	7	9
September.	92	32	65.2	2.69	64.7	6.6	sw.	13	9	8
October...	86	30	54.4	2.26	66.0	6.8	s.	16	4	11
November.	75	12	43.4	1.93	69.5	10.4	sw.	15	7	8
December.	66	-6	27.6	1.99	77.6	9.6	w.	11	13	7
Total.....	..	..	...	29.71	...	..	...	140	87	139
Average..	81	23	52.3	2.48	71.8	8.5	sw.	11.7	7.2	11.6

CONDENSED METEOROLOGICAL SUMMARY FOR THE ILLINOIS AGRICULTURAL  
EXPERIMENT STATION AT URBANA: 1889 TO 1916

Month	TEMPERATURE			Rain-fall in inches	Mean rela- tive humid- ity	Wind		No. of clear days	No. of partly cloudy days	No. of cloudy days
	Max.	Min.	Mean			Aver- age velo- city	Direc- tion			
January..	57.2	-5.8	26.5	2.35	87.5 <sup>2</sup>	10.4 <sup>5</sup>	nw. <sup>1</sup>	4.3	15.3	11.4
February.	57.5	-5.5	26.2	2.08	86.2 <sup>2</sup>	10.3 <sup>4</sup>	nw. <sup>2</sup>	4.4	15.0	8.7
March....	70.2	9.8	38.0	2.70	82.2 <sup>2</sup>	10.7 <sup>4</sup>	nw. <sup>1</sup>	4.5 <sup>1</sup>	17.7 <sup>1</sup>	9.0 <sup>1</sup>
April.....	80.5	24.3	50.8	3.12	75.2 <sup>2</sup>	10.8 <sup>4</sup>	sw. <sup>2</sup>	5.6 <sup>2</sup>	17.4 <sup>2</sup>	7.0 <sup>2</sup>
May.....	87.1	34.8	61.3	4.04	73.8 <sup>2</sup>	9.6 <sup>4</sup>	sw. <sup>1</sup>	5.8	19.8	5.3
June.....	92.9	44.9	70.5	3.50	73.7 <sup>2</sup>	7.6 <sup>4</sup>	sw. <sup>1</sup>	5.4	20.3	4.3
July.....	95.4	49.1	74.6	3.33	73.5 <sup>2</sup>	6.7 <sup>5</sup>	sw. <sup>1</sup>	7.3	19.3	4.4
August...	94.1	47.9	72.7	3.17	73.6 <sup>2</sup>	6.6 <sup>5</sup>	sw. <sup>1</sup>	7.9 <sup>1</sup>	19.6 <sup>1</sup>	3.5 <sup>1</sup>
September	91.6	36.7	65.9	2.79	74.6 <sup>2</sup>	7.0 <sup>5</sup>	s. <sup>2</sup>	8.7	16.3	5.0
October...	83.1	26.1	53.4	2.00	74.8 <sup>2</sup>	7.8 <sup>4</sup>	sw. <sup>1</sup>	10.6	15.3	5.0
November.	70.0	12.0 <sup>1</sup>	40.0	2.75	79.4 <sup>2</sup>	10.0 <sup>5</sup>	sw. <sup>2</sup>	11.0	15.8	8.3
December.	58.1	1.8 <sup>1</sup>	30.4	2.33	82.4 <sup>2</sup>	9.6 <sup>5</sup>	sw. <sup>1</sup>	4.8	15.6	10.9
Total.....	...	...	...	34.16	...	...	...	80.3	207.4	82.8
Average..	78.1	23.1	50.8	2.84	78.1	8.9	sw.	6.7	17.3	6.9

<sup>1</sup>Average of 27 years.<sup>2</sup>Average of 26 years.<sup>3</sup>Average of 25 years.<sup>4</sup>Average of 12 years.<sup>5</sup>Average of 11 years.



AGRICULTURAL EXPERIMENT STATION, URBANA: ANNUAL PRE-  
CIPITATION FOR GROWING SEASON, BY TEN-DAY PERIODS

	1889	1890	1891	1892	1893	1894	1895	1896	1897
April 1-10	0.05	1.10	1.68	3.32	1.39	0.67	1.81	0.71	1.70
April 11-20	0.54	1.40	1.35	1.17	3.76	1.03	0.13	0.60	0.54
April 21-30	0.02	1.61	0.51	1.96	2.53	0.19	0.47	0.58	1.98
May 1-10	0.00	0.68	0.00	1.90	0.36	2.17	0.19	1.39	0.83
May 11-20	0.38	1.61	0.46	2.75	0.68	0.02	1.98	2.22	0.61
May 21-31	5.14	1.27	0.43	3.21	3.79	1.15	0.03	1.76	0.36
June 1-10	3.47	0.40	0.55	0.30	1.26	0.02	0.01	1.85	...
June 11-20	3.22	3.40	1.20	3.05	0.25	0.53	0.72	0.88	...
June 21-30	1.31	0.00	0.33	2.01	0.04	1.23	1.51	0.25	...
July 1-10	0.39	0.81	0.07	1.37	0.05	0.05	0.45	1.20	2.97
July 11-20	2.76	1.23	0.51	0.86	0.35	0.30	2.37	2.64	1.30
July 21-31	2.66	0.79	0.83	0.27	0.19	0.73	0.79	4.03	0.41
Aug. 1-10	0.03	1.07	0.03	2.35	0.00	1.19	0.00	1.28	0.21
Aug. 11-20	0.57	0.14	2.61	0.00	0.06	0.53	0.00	2.25	0.28
Aug. 21-31	0.00	0.72	0.22	0.08	0.00	0.34	1.81	0.21	0.14
Sept. 1-10	1.30	0.64	0.35	0.55	0.00	3.54	3.20	2.48	0.31
Sept. 11-20	0.00	0.18	0.00	0.38	1.22	0.50	1.55	0.89	0.00
Sept. 21-30	1.44	0.37	0.06	0.00	2.40	0.17	0.52	2.10	0.00
Total.....	23.28	17.42	11.19	25.53	18.33	14.36	17.54	27.32	...

ANNUAL PRECIPITATION FOR GROWING SEASON—Continued

	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907
April 1-10	0.33	0.00	0.00	0.32	0.00	3.35	1.42	0.22	1.75	0.54
April 11-20	0.73	0.25	0.74	0.45	0.31	1.90	0.00	0.00	0.42	0.10
April 21-30	1.63	0.25	0.10	0.03	1.80	0.46	2.55	2.73	0.06	1.70
May 1-10	0.14	0.38	1.70	1.10	2.03	0.00	0.62	1.23	1.01	0.85
May 11-20	3.70	2.07	1.90	0.05	0.41	0.03	0.32	1.33	1.04	1.15
May 21-31	1.81	3.64	1.00	0.78	0.16	3.92	0.66	1.68	1.26	2.96
June 1-10	2.79	0.93	0.69	1.23	1.81	1.88	0.30	1.18	1.95	3.66
June 11-20	0.75	0.60	0.30	1.79	3.23	0.30	0.62	0.06	1.13	0.00
June 21-30	2.54	0.76	3.12	2.78	5.94	0.38	0.25	0.06	0.00	1.90
July 1-10	0.00	0.57	0.18	2.40	0.47	1.28	2.12	3.31	0.11	2.05
July 11-20	0.85	1.67	2.53	0.08	1.67	2.79	0.32	1.97	1.50	1.49
July 21-31	1.04	0.41	1.10	0.00	1.88	1.06	0.28	0.12	0.55	1.47
Aug. 1-10	1.84	1.59	0.23	0.00	3.15	0.48	0.50	0.00	0.93	2.01
Aug. 11-20	0.70	0.06	5.08	1.04	6.65	0.60	1.46	2.14	2.83	2.34
Aug. 21-31	1.07	0.64	0.92	0.64	0.00	1.25	1.59	0.00	0.81	0.07
Sept. 1-10	2.44	0.88	0.12	0.10	0.83	0.09	0.00	2.56	0.05	0.41
Sept. 11-20	0.70	0.17	1.05	1.28	0.76	0.41	2.02	0.26	0.12	0.04
Sept. 21-30	2.05	0.02	1.06	0.00	3.31	0.49	0.51	0.06	2.28	0.49
Total...	25.11	14.89	21.82	14.07	34.41	20.67	15.54	18.91	17.80	23.23

ANNUAL PRECIPITATION FOR GROWING SEASON—*Concluded*

	1908	1909	1910	1911	1912	1913	1914	1915	1916	Average
April 1-10	1.72	2.40	0.10	1.45	1.28	1.52	2.18	0.82	0.19	1.14
April 11-20	0.47	2.81	0.72	1.68	2.12	0.06	0.08	0.02	0.76	0.86
April 21-30	2.81	2.23	0.75	0.46	2.20	0.61	0.61	0.75	0.33	1.14
May 1-10	4.22	1.88	1.82	0.61	0.59	0.06	1.07	1.93	0.80	1.06
May 11-20	2.87	0.22	1.14	1.21	2.52	0.00	0.82	0.17	2.37	1.22
May 21-31	0.74	3.46	2.39	0.62	1.05	0.50	0.05	3.01	2.53	1.76
June 1-10	0.09	1.01	0.24	0.08	0.38	0.00	0.95	0.13	1.39	1.06
June 11-20	0.76	1.09	0.00	0.06	1.51	0.00	0.88	2.21	1.38	1.11
June 21-30	1.14	1.65	2.75	0.68	0.00	1.67	0.57	0.64	1.11	1.28
July 1-10	0.68	3.61	0.05	0.00	1.22	0.77	0.24	3.16	0.07	1.06
July 11-20	1.33	3.79	1.82	0.36	0.00	0.12	0.86	0.44	0.40	1.30
July 21-31	0.30	0.17	0.89	0.26	2.46	0.63	0.34	3.70	0.26	0.99
Aug. 1-10	0.00	0.03	0.22	0.54	0.66	0.06	0.50	1.06	0.17	0.72
Aug. 11-20	1.95	0.01	1.45	0.00	1.18	1.16	0.96	2.97	1.27	1.40
Aug. 21-31	0.10	2.33	0.95	2.81	0.22	0.22	1.19	0.87	0.02	0.69
Sept. 1-10	0.48	0.36	2.45	3.45	0.30	0.01	2.01	0.16	1.67	1.10
Sept. 11-20	0.00	0.16	0.52	1.65	1.07	2.07	0.06	1.96	0.00	0.68
Sept. 21-30	1.47	1.84	1.17	3.80	0.39	0.42	0.04	0.46	1.02	1.00
Total..	21.13	29.05	19.43	19.72	19.15	9.88	13.41	24.46	15.74	...



# PRECIPITATION FOR EXTREME NORTHERN DISTRICT BY STATIONS

## ANTIOCH, LAKE COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1901	...	...	...	...	...	...	2.85	1.31	1.97	0.61	0.66	0.90	...
1902	0.45	1.40	1.95	1.30	7.45	5.90	6.25	0.55	7.35	3.67	1.80	0.70	38.77
1903	0.35	0.60	2.60	2.55	3.65	2.90	6.60	7.95	6.35	0.80	0.70	1.10	36.15
1904	0.55	1.10	5.20	2.20	1.90	1.39	4.41	2.20	4.55	1.20	0.75	1.30	26.75
1905	1.00	2.05	2.65	...	4.45	2.95	5.80	5.20	2.80	...	1.70	1.55	...
1906	3.20	2.40	0.60	1.95	2.10	2.95	1.65	5.33	5.87	2.25	3.30	1.15	32.75
1907	3.80	0.30	1.65	0.95	5.29	4.80	2.02	3.96	5.43	1.05	1.87	2.10	33.22
1908	2.55	2.20	3.35	4.85	5.26	3.60	4.29	1.57	1.00	1.15	2.70	1.00	33.52
1909	2.20	1.60	0.00	8.68	1.05	2.00	1.15	6.55	3.62	0.61	3.23	3.50	34.19
1910	2.20	0.65	0.05	2.94	4.94	1.30	0.83	3.61	2.80	2.37	2.00	*1.11	24.80
1911	0.80	2.88	0.23	5.57	3.10	4.00	1.28	5.73	6.16	4.16	5.29	2.50	41.70
1912	0.50	*0.30	1.69	2.69	3.66	2.02	8.70	2.34	2.25	5.62	1.75	1.31	32.83
1913	1.81	1.28	2.53	2.35	5.47	2.07	3.45	1.81	3.10	5.51	1.62	T	31.00
1914	2.63	1.27	2.71	1.86	6.76	4.80	3.33	1.87	3.98	3.47	0.59	2.68	35.95
1915	1.71	2.40	1.75	0.63	7.92	3.87	4.20	2.48	7.93	2.01	2.35	0.40	37.65
1916	4.11	1.41	...	...	...	7.64	2.03	1.97	3.77	4.27	2.07	...	...

\*Estimated from surrounding stations.

## DUBUQUE, DUBUQUE COUNTY, IOWA

1873	2.45	...	...	...	...	...	1.27	5.88	1.53	2.07	0.77	2.07	...
1874	2.45	0.49	1.28	1.54	1.08	3.29	3.24	2.13	7.68	2.18	4.79	0.65	30.80
1875	1.00	2.12	1.45	2.71	3.62	4.75	5.74	1.07	7.10	2.71	0.48	2.71	35.46
1876	3.20	1.53	4.00	3.63	5.96	7.88	8.15	5.92	5.90	1.10	2.49	0.52	50.28
1877	0.96	0.26	4.53	3.74	3.84	6.75	2.90	3.96	0.67	5.35	3.31	2.70	38.97
1878	0.49	1.93	2.44	4.34	4.61	4.35	6.71	1.72	6.94	2.85	0.80	1.12	38.30
1879	0.44	1.00	1.20	2.02	2.94	4.99	6.78	2.43	2.98	0.93	5.41	1.28	32.40
1880	1.95	1.01	2.55	3.51	3.72	6.02	3.55	7.15	6.84	0.66	2.11	1.25	40.32
1881	1.87	3.75	3.78	1.30	2.20	7.56	10.53	2.46	10.26	6.70	3.19	1.55	55.15
1882	0.84	0.59	1.49	4.47	4.16	6.29	1.48	2.29	2.60	5.29	1.55	1.79	32.84
1883	1.59	2.60	0.32	1.93	7.13	5.34	7.90	2.70	2.09	4.44	1.65	1.88	39.57
1884	0.99	2.19	3.85	2.77	4.88	4.89	5.30	4.25	4.07	4.16	1.43	4.08	42.86
1885	1.80	0.72	0.41	3.69	2.62	6.16	6.35	8.02	4.58	2.32	0.64	3.14	40.45
1886	3.17	1.36	4.32	2.12	4.17	0.71	0.89	0.67	3.10	4.08	1.89	1.03	27.51
1887	3.33	3.56	1.80	1.37	2.53	1.32	2.44	4.40	7.62	2.22	0.74	3.07	34.40
1888	1.20	1.31	3.44	2.58	5.84	5.28	3.59	1.73	2.01	1.62	2.75	1.96	33.31
1889	1.55	1.34	0.30	3.56	4.00	3.87	4.22	0.26	1.54	0.66	1.57	1.38	24.25
1890	2.31	1.25	1.68	2.94	5.36	9.59	1.21	6.00	3.72	6.43	1.85	0.82	43.16
1891	1.27	0.98	2.69	1.63	2.54	2.34	4.59	3.31	0.68	2.20	3.24	2.08	27.55
1892	2.34	1.02	1.91	4.37	9.18	14.16	5.08	2.51	3.79	0.44	1.89	2.08	48.77
1893	1.60	1.30	2.52	4.32	3.06	5.49	3.57	0.58	3.31	1.66	2.03	1.33	30.77
1894	1.11	1.22	3.06	2.27	1.75	2.25	0.02	1.32	2.96	1.51	1.53	0.35	19.35
1895	1.44	0.66	0.99	0.49	2.63	1.05	3.00	1.75	2.06	0.80	2.12	2.75	19.74
1896	0.75	1.93	0.76	7.80	7.63	3.11	7.72	2.05	5.67	2.56	1.60	0.71	42.29
1897	2.55	1.43	2.97	3.39	2.09	2.36	4.34	1.51	3.19	1.02	1.23	2.08	28.16
1898	2.19	2.01	2.78	4.06	4.47	4.36	2.83	4.37	3.07	3.86	1.15	3.03	35.48
1899	0.51	0.67	1.52	4.24	5.75	4.08	4.12	1.95	0.99	1.63	0.97	1.85	28.28
1900	1.15	2.13	1.84	2.39	4.75	2.04	8.00	3.35	3.34	2.38	1.64	0.42	33.43
1901	1.07	1.07	2.88	1.01	3.10	1.23	2.31	0.25	3.72	1.64	0.67	1.44	20.39
1902	0.74	1.43	1.76	1.11	8.67	6.97	6.80	1.57	3.93	2.26	0.86	2.24	38.34
1903	0.17	1.19	1.84	3.29	2.55	2.16	7.10	5.27	3.20	1.72	0.75	0.85	31.79
1904	0.51	0.73	2.86	2.05	3.86	0.74	1.86	2.58	2.21	3.18	0.08	2.37	23.03
1905	0.95	1.58	2.27	3.07	4.06	4.33	1.51	3.07	1.25	3.88	2.64	1.17	29.78
1906	2.72	0.93	2.36	1.16	3.59	3.36	1.57	4.44	1.78	1.70	2.95	2.04	28.60
1907	1.72	0.52	0.99	2.48	2.66	4.08	5.15	5.85	6.01	0.77	1.29	0.67	32.19
1908	0.70	1.87	1.72	2.50	5.82	2.21	2.06	2.92	1.14	1.20	1.34	0.63	24.11
1909	1.98	1.32	1.25	7.40	2.32	6.61	1.30	1.50	4.28	2.03	2.94	2.08	35.01
1910	2.45	0.50	0.14	3.40	3.42	2.43	0.47	3.96	3.10	0.89	0.53	0.57	21.86
1911	0.72	4.09	0.52	3.17	2.84	2.83	4.41	8.74	3.56	2.34	3.04	1.95	38.21
1912	0.55	1.77	2.07	2.49	5.98	1.93	4.81	6.79	4.42	3.50	1.51	1.00	36.82
1913	1.11	0.82	2.81	1.70	8.20	1.92	2.31	3.60	3.59	2.92	1.23	0.34	30.55
1914	0.78	1.16	1.74	1.53	4.64	5.81	1.57	4.01	4.75	2.88	0.21	1.83	30.91
1915	2.01	2.48	1.14	0.38	7.61	3.06	5.08	2.84	9.62	2.03	1.65	0.36	38.26
1916	2.46	0.76	3.91	2.69	2.49	4.61	0.85	1.49	6.19	3.32	1.17	0.95	30.89

## KISHWAUKEE, WINNEBAGO COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1872	....	....	....	....	....	....	....	....	....	....	....	0.76	....
1873	1.80	....	1.56	1.50	4.75	3.00	1.60	1.65	1.55	2.70	1.60	2.25	....
1874	4.87	0.83	1.01	1.23	1.09	3.39	0.90	1.19	5.97	1.10	1.73	0.57	23.88
1875	0.75	1.56	0.59	3.06	2.25	6.21	5.96	2.15	3.56	2.34	0.51	2.57	31.51
1876	3.46	2.91	2.84	3.83	6.06	4.25	5.80	2.42	4.71	1.50	4.37	0.41	42.56
1877	3.06	0.30	5.53	3.99	2.20	4.32	1.96	4.04	0.61	6.15	3.90	2.00	38.06
1878	0.56	1.52	3.63	3.44	4.20	3.48	5.75	1.99	0.78	6.03	0.78	1.48	33.64
1879	0.71	1.32	0.91	2.76	2.19	3.63	6.98	3.06	0.40	1.93	5.35	1.18	30.42
1880	3.17	1.92	2.70	4.53	4.11	3.88	1.74	2.98	3.51	1.20	1.73	0.60	32.07
1881	1.71	6.50	3.49	1.38	2.39	6.44	7.72	0.33	3.72	5.37	2.17	2.99	44.21
1882	1.19	2.01	3.54	5.15	3.42	5.69	2.96	3.82	0.93	3.32	2.24	2.49	36.76
1883	1.98	3.76	0.57	1.96	6.39	4.21	3.69	1.50	0.92	6.66	3.87	1.58	37.09
1884	1.42	1.91	2.88	3.45	3.43	6.16	6.13	3.68	3.85	6.24	1.99	6.51	47.65
1885	2.39	2.50	0.26	4.33	2.39	5.47	4.50	9.18	4.64	3.95	1.96	3.57	45.14
1886	5.88	3.40	4.55	4.36	4.93	2.74	0.35	8.41	2.25	4.03	1.61	1.65	44.16
1887	4.21	6.44	1.25	0.92	1.98	0.89	3.12	4.42	3.75	2.09	1.39	5.01	35.47
1888	1.72	1.30	3.03	2.54	6.25	1.27	4.90	1.99	1.05	1.80	2.39	2.58	30.82
1889	2.96	1.51	1.32	2.88	6.64	3.93	2.02	0.74	1.95	0.67	2.38	2.88	29.88
1890	2.81	2.69	2.42	3.76	5.28	12.33	0.83	3.38	0.60	5.98	2.23	1.60	43.91
1891	2.72	1.65	3.21	4.83	2.75	4.87	2.27	1.44	0.75	1.53	3.67	1.30	30.99
1892	3.72	1.95	1.61	4.71	9.18	14.16	4.32	7.26	1.61	0.78	2.53	2.96	54.79
1893	3.39	2.45	3.21	5.38	3.09	4.51	3.49	1.13	2.82	3.60	1.71	1.71	36.49
1894	1.47	2.06	3.26	2.74	3.51	2.03	1.48	1.27	5.15	1.81	1.79	0.33	26.90
1895	2.27	0.93	2.53	1.51	3.54	1.93	2.53	3.06	2.77	1.32	3.34	2.59	28.32
1896	0.90	2.40	2.02	4.08	6.31	2.34	4.36	3.75	8.33	0.85	3.05	0.90	39.29
1897	4.72	1.45	4.90	3.81	1.12	4.09	2.71	0.90	1.18	0.68	1.73	1.62	28.91
1898	2.97	2.52	4.21	2.16	4.36	2.79	2.32	5.46	3.49	2.74	1.23	0.84	35.09
1899	0.43	0.95	1.74	...	...	...	...	...	...	1.60	1.12	2.23	....
1900	...	3.39	1.07	2.90	3.46	2.58	4.04	5.35	2.98	3.64	1.93	0.48	....
1901	1.41	2.40	3.93	0.46	2.00	3.13	4.39	1.36	3.34	0.82	1.03	1.53	25.80
1902	0.48	1.63	3.17	1.62	7.88	7.45	6.87	1.49	7.04	2.07	2.94	1.87	44.51
1903	0.58	1.19	3.84	6.00	3.73	2.38	5.25	9.29	6.06	2.77	1.25	1.04	43.38
1904	2.90	1.30	4.43	2.84	3.36	1.24	3.15	3.35	3.52	1.89	0.02	1.93	29.93
1905	0.61	1.42	3.80	2.90	5.51	2.65	2.65	3.13	1.95	3.53	2.24	1.45	31.84
1906	2.60	1.64	2.88	1.47	3.07	3.11	2.99	6.91	4.51	1.83	2.56	1.74	35.31
1907	3.58	0.29	2.15	2.34	2.90	4.94	5.07	3.76	5.70	0.74	1.31	1.23	34.01
1908	0.63	2.09	4.17	3.59	7.84	2.31	3.08	2.34	0.94	1.07	2.82	0.56	31.44
1909	1.91	1.83	0.93	5.96	4.39	3.90	1.25	6.41	3.59	0.84	4.11	3.23	38.35
1910	1.54	0.52	0.27	3.84	4.25	0.63	2.04	3.58	2.66	0.84	1.14	0.57	21.88
1911	0.80	2.56	0.70	5.17	2.55	3.70	1.27	7.04	5.48	2.39	4.57	1.60	37.83
1912	0.22	1.06	1.70	2.87	3.33	3.85	5.84	6.61	3.86	4.65	1.23	1.45	36.67
1913	0.67	1.28	2.19	2.05	5.52	2.77	4.77	2.72	3.58	2.88	1.96	0.28	30.67
1914	1.27	1.15	4.11	1.32	6.05	7.37	0.84	2.25	3.92	1.75	0.56	2.16	32.75

From April, 1894, to December, 1894, inclusive, the values are for Winnebago. All other values prior to September, 1898, also the values for 1914, are for Rockford. The three stations are in the same county.



## RILEY, MCHENRY COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1869	...	...	...	...	4.74	7.38	2.30	4.59	0.98	0.97	2.39	2.60	....
1870	2.28	0.59	4.43	1.51	0.54	0.99	4.66	3.79	5.36	3.14	0.69	1.50	29.48
1871	2.82	1.30	2.23	2.05	2.32	5.17	1.04	3.07	0.68	2.97	2.25	1.93	27.83
1872	0.45	0.42	2.78	3.47	3.41	3.22	4.38	3.31	8.89	0.62	1.47	0.93	33.35
1873	2.14	0.32	1.56	2.40	5.23	2.59	2.61	1.98	2.34	2.21	1.55	3.42	28.35
1874	3.76	0.95	1.93	3.02	2.04	2.96	1.09	2.75	2.58	2.31	1.48	0.48	25.35
1875	1.38	1.95	1.01	2.33	3.28	5.26	4.24	2.14	7.29	2.76	0.72	2.32	34.68
1876	3.01	3.51	3.42	2.09	3.76	4.57	7.64	1.52	4.70	0.97	3.67	0.71	39.57
1877	1.72	0.03	6.50	2.81	0.93	4.83	1.96	3.60	0.21	6.57	2.90	3.38	35.44
1878	0.85	1.33	2.72	2.87	4.26	2.46	4.73	3.52	1.46	4.71	1.06	2.46	32.43
1879	0.85	1.54	1.15	2.30	4.97	4.81	5.39	1.96	1.20	1.38	5.30	1.47	32.32
1880	4.14	1.62	1.40	3.10	2.68	5.28	2.68	4.20	4.02	2.37	1.01	0.75	33.25
1881	1.54	5.28	6.48	0.98	3.10	5.62	5.88	1.01	5.47	6.81	2.36	2.69	47.22
1882	1.57	2.15	4.58	3.29	3.59	4.42	3.63	2.08	2.36	4.17	1.52	2.00	35.36
1883	2.18	4.61	0.89	2.00	6.18	3.92	2.94	1.17	2.04	4.28	4.03	1.67	35.91
1884	0.80	2.20	1.51	2.85	2.56	4.22	4.19	3.36	4.34	3.85	1.79	3.28	34.95
1885	2.32	1.92	0.29	3.97	1.72	5.80	2.07	6.80	3.86	2.57	2.09	2.37	35.78
1886	3.60	1.61	3.68	3.76	3.13	1.89	0.81	5.85	2.25	2.55	0.98	1.13	31.24
1887	3.59	4.82	1.01	1.55	0.95	1.23	2.70	4.85	4.61	2.75	1.87	3.31	33.24
1888	1.24	1.17	2.34	2.16	4.48	0.81	3.44	4.23	1.00	1.70	1.97	1.87	26.41
1889	1.86	1.21	1.56	2.48	4.09	3.25	3.44	0.77	1.68	0.40	2.34	1.44	24.52
1890	2.65	1.52	2.14	2.88	4.33	9.64	0.53	3.83	0.67	5.38	1.74	1.13	36.44
1891	2.22	1.65	1.64	4.05	4.38	5.06	2.40	1.95	0.87	1.16	3.75	2.16	31.29
1892	1.73	1.22	1.49	2.83	11.05	11.21	3.76	4.42	1.43	0.72	1.64	1.71	43.21
1893	1.57	1.55	1.82	3.71	2.99	5.13	2.32	0.45	4.18	2.47	2.34	1.42	29.95
1894	2.24	1.33	3.02	2.62	3.62	1.22	0.31	1.33	15.73	1.57	2.06	0.44	35.49
1895	2.09	0.46	1.32	1.81	2.91	1.68	3.43	3.94	2.16	0.41	2.69	3.00	25.90
1896	0.61	1.56	1.85	2.97	5.04	3.02	3.29	2.15	9.45	0.38	1.77	0.43	32.52
1897	4.45	1.49	3.87	2.59	1.08	3.23	1.57	1.24	1.15	0.48	2.52	1.50	25.17
1898	3.89	3.03	4.76	1.90	2.74	7.74	2.27	4.35	2.16	3.41	1.64	0.76	38.65
1899	0.44	1.21	1.65	0.76	4.61	2.56	4.04	2.06	1.59	1.72	1.44	1.56	23.64
1900	1.48	3.12	1.35	1.36	3.08	2.43	6.03	7.09	2.58	2.74	2.00	0.42	33.68
1901	1.38	1.69	3.38	0.26	1.10	2.37	3.23	1.15	2.01	0.86	1.05	1.22	19.70
1902	0.55	1.42	2.31	1.31	6.16	6.83	7.78	1.00	3.58	2.90	2.87	2.35	39.06
1903	0.80	1.33	3.47	3.36	3.29	1.65	4.61	6.52	6.43	1.97	0.82	1.66	35.91
1904	1.79	1.43	3.98	2.27	2.81	1.52	3.35	3.32	4.79	1.28	0.15	1.35	28.04
1905	0.82	1.69	2.73	3.31	7.46	6.32	3.30	5.85	2.38	3.89	1.57	1.40	40.72
1906	2.73	1.96	1.94	1.20	2.83	1.95	1.25	4.90	4.05	1.79	2.52	1.47	28.59
1907	3.67	0.38	1.68	3.09	4.29	4.84	4.92	3.55	4.90	0.50	1.20	1.16	34.18
1908	0.77	2.63	4.06	4.05	6.87	3.82	2.68	2.21	0.47	0.96	1.66	0.99	31.17
1909	2.50	2.58	1.10	7.70	1.62	3.37	0.63	6.25	3.37	0.72	3.91	5.05	38.80
1910	2.23	0.55	0.24	3.32	4.42	0.80	1.09	3.68	2.57	1.51	1.27	0.80	22.48
1911	0.96	2.10	0.68	3.83	2.64	3.17	1.21	7.35	4.40	2.16	4.70	1.70	34.90
1912	0.28	1.08	1.51	2.42	2.31	5.91	5.59	4.29	3.60	5.98	1.24	1.08	35.29
1913	1.02	1.65	2.45	2.12	5.63	2.04	6.55	3.69	3.09	3.22	1.73	0.55	33.74
1914	1.68	0.76	3.22	2.15	5.27	5.35	1.74	2.13	4.34	2.48	0.50	3.91	31.58
1915	1.48	1.69	0.84	0.47	5.99	4.51	5.36	1.12	4.71	1.11	2.67	0.54	30.49
1916	4.15	0.73	3.53	1.69	3.33	6.92	1.52	2.93	5.07	4.33	1.96	2.57	38.73

## ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1874	4.87	0.83	1.01	1.23	1.09	3.39	0.90	1.19	5.97	1.10	1.73	0.59	23.90
1875	0.75	1.56	0.59	3.06	2.25	6.21	5.96	2.15	3.56	2.34	0.51	2.57	31.51
1876	3.46	2.91	2.84	3.83	6.06	4.25	5.80	2.42	4.71	1.50	4.37	0.41	42.56
1877	3.06	0.30	5.53	3.99	2.20	4.32	1.96	4.04	0.61	6.15	3.90	2.00	38.06
1878	0.56	1.52	3.63	3.44	4.20	3.48	5.75	1.99	0.78	6.03	0.78	1.48	33.64
1879	0.71	1.32	0.91	2.76	2.19	3.63	6.98	3.06	0.40	1.93	5.35	1.18	30.42
1880	3.17	1.92	2.70	4.53	4.11	3.88	1.74	2.98	3.51	1.20	1.73	0.60	32.07
1881	1.71	6.50	3.49	1.38	2.39	6.44	7.72	0.33	3.72	5.37	2.17	2.99	44.21
1882	1.19	2.01	3.54	5.15	3.42	5.69	2.96	3.82	0.93	3.32	2.24	2.49	36.76
1883	1.98	3.76	0.57	1.96	6.39	4.21	3.69	1.50	0.92	6.66	3.87	1.58	37.09
1884	1.42	1.92	2.88	3.45	3.43	6.16	6.13	3.68	3.85	6.24	1.99	6.51	47.66
1885	2.39	2.50	0.26	4.33	2.39	5.47	4.50	9.18	4.64	3.95	1.96	3.57	45.14
1886	5.87	3.40	4.55	4.36	4.93	2.74	0.35	8.41	2.25	4.03	1.61	1.65	44.15
1887	4.21	6.44	1.25	0.92	1.98	0.89	3.12	4.42	3.75	2.09	1.39	5.01	35.47
1888	1.72	1.30	3.03	2.54	6.25	1.27	4.90	1.99	1.05	1.80	2.39	2.58	30.82
1889	2.96	1.51	1.32	2.88	6.64	3.93	2.02	0.74	1.95	0.67	2.38	2.88	29.88
1890	2.81	2.69	2.42	3.76	5.28	12.33	0.83	3.38	0.60	5.98	2.23	1.60	43.91
1891	2.72	1.65	3.21	4.83	2.75	4.87	2.27	1.44	0.75	1.53	3.67	1.30	30.99
1892	3.72	1.95	1.61	4.71	9.18	14.16	4.32	7.26	1.61	0.78	2.53	2.96	54.79
1893	3.39	2.45	3.21	5.38	3.09	4.51	3.49	1.13	2.82	3.60	1.71	1.71	36.49
1894	....	....	....	....	....	....	....	....	....	....	....	....	....
1895	2.27	0.93	2.53	1.51	3.54	1.93	2.53	3.06	2.77	1.32	3.34	2.59	28.32
1896	0.90	2.40	2.02	4.08	6.31	2.34	4.36	3.75	8.33	0.85	3.05	0.90	39.29
1897	4.72	1.45	4.90	3.81	1.12	4.09	2.71	0.90	1.18	0.68	1.73	1.62	28.91
1898	2.97	2.52	4.21	2.16	4.36	2.79	2.32	5.46	....	....	....	....	....
1899	....	....	....	1.61	6.91	2.13	5.69	2.34	1.61	....	....	....	....
1900	....	....	....	2.74	....	2.73	....	9.22	3.70	....	....	....	....
1901	....	....	....	....	2.14	3.72	2.75	1.16	2.85	....	....	....	....
1902	....	....	....	0.84	8.30	7.74	5.76	1.14	6.43	....	....	....	....
1903	....	....	....	3.95	2.53	1.62	5.49	7.59	5.39	....	....	....	....
1904	....	....	....	*2.20	*3.38	....	....	*4.06	*3.39	....	....	....	....
1905	*0.63	*1.55	*3.78	2.70	6.13	3.55	*3.16	3.75	1.16	3.90	2.33	0.93	33.57
1906	3.29	2.28	3.35	1.49	2.42	4.37	3.91	3.23	4.69	2.19	3.39	1.70	36.31
1907	3.18	0.69	1.90	2.78	2.96	4.54	4.63	2.80	4.84	0.82	0.98	0.17	30.29
1908	1.32	2.40	4.54	3.34	6.58	3.23	3.67	1.87	0.92	0.89	2.39	0.79	31.94
1909	2.79	2.31	1.13	6.01	4.78	3.81	0.68	7.69	3.41	0.75	4.15	3.48	40.99
1910	2.06	0.80	0.27	3.50	4.76	0.72	1.91	3.66	2.12	1.03	1.44	0.60	22.87
1911	0.74	2.95	0.55	5.57	2.98	2.39	0.81	8.70	6.56	2.86	4.30	1.91	40.32
1912	0.62	1.82	1.56	2.55	3.94	3.78	8.21	5.56	3.53	4.98	1.34	1.14	39.03
1913	1.30	1.74	2.80	1.53	5.70	1.59	5.85	2.78	3.67	3.13	1.52	0.55	32.16
1914	1.27	1.15	4.11	1.32	6.05	7.37	0.84	2.25	3.92	1.75	0.56	2.16	32.75
1915	1.78	2.88	1.01	0.28	7.02	4.68	5.85	2.05	5.57	1.27	2.85	0.52	35.76
1916	4.33	0.81	3.45	1.34	4.58	7.81	0.48	1.98	7.00	4.25	1.66	1.72	39.41

\*Estimated from surrounding stations.



## WINNEBAGO, WINNEBAGO COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1857	....	....	3.26	2.39	3.64	8.34	4.01	6.10	2.56	4.76	1.91	1.30	.....
1858	2.37	1.29	2.08	3.98	6.87	7.45	3.36	2.85	5.59	2.94	4.50	1.88	45.16
1859	1.28	1.36	4.88	3.44	2.82	2.42	1.89	1.34	2.57	0.68	3.04	0.79	26.51
1860	1.14	2.00	0.78	1.19	4.28	4.47	....	2.26	5.48	2.17	2.44	3.30	.....
1861	2.66	4.87	2.41	4.98	5.39	1.33	5.78	3.05	6.89	3.56	1.75	1.84	44.51
1862	3.78	1.02	2.16	5.59	3.67	3.09	....	6.98	5.96	2.76	0.93	1.52	.....
1863	2.86	....	1.65	....	5.05	1.67	2.10	2.24	1.63	3.49	2.22	3.62	.....
1864	2.05	0.30	2.71	2.66	1.46	1.13	5.83	1.88	3.57	2.28	2.27	2.76	28.90
1865	0.27	3.25	3.58	4.33	1.56	4.66	6.17	7.22	9.09	3.53	0.42	0.74	44.82
1866	2.49	0.98	2.00	3.06	1.90	4.45	5.03	7.52	4.19	2.86	0.59	3.84	38.91
1867	2.86	2.83	1.58	1.43	4.65	3.74	1.58	3.33	1.53	0.50	1.68	1.03	26.74
1868	0.82	0.77	4.98	4.43	3.82	5.12	2.93	1.60	5.23	1.00	3.31	1.30	35.31
1869	1.39	2.14	0.95	2.76	5.53	7.01	2.91	4.22	3.85	0.83	2.76	2.86	37.21
1870	2.87	0.75	3.41	1.32	1.25	2.12	3.74	3.66	3.92	2.75	0.60	0.78	27.17
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1888	†1.72	†1.30	†3.03	2.20	5.69	1.13	7.63	2.27	1.18	1.75	2.17	2.65	32.72
1889	2.18	2.00	1.40	4.14	5.42	3.20	2.77	0.10	1.66	0.62	1.73	2.83	28.05
1890	3.39	2.73	1.64	3.50	4.35	10.15	0.40	2.55	0.50	6.40	2.10	1.40	39.11
1891	2.30	1.55	4.25	4.17	2.50	3.45	2.13	1.24	0.99	1.49	3.71	2.26	30.04
1892	2.60	1.76	1.95	4.40	8.33	10.29	3.85	5.15	1.74	0.50	2.12	2.38	45.07
1893	2.04	2.04	2.80	4.66	2.72	3.26	2.61	0.80	2.68	2.45	1.67	1.29	28.52
1894	1.48	1.25	3.55	2.74	3.51	2.03	1.48	1.27	5.15	1.81	1.79	0.33	26.39
1895	1.42	0.39	1.90	0.70	4.07	1.89	3.89	2.92	2.29	0.80	3.07	2.07	25.41
1896	0.65	1.54	1.28	3.63	6.50	2.94	4.95	1.92	5.61	0.75	2.18	0.58	32.53
1897	3.74	1.38	4.87	3.63	1.31	4.70	3.82	1.37	1.01	0.58	1.28	1.58	29.27
1898	2.95	3.07	3.95	3.39	3.52	3.65	2.74	7.13	2.47	3.80	1.81	0.71	39.19
1899	0.53	1.49	1.87	2.14	6.56	2.15	6.18	2.57	1.68	2.22	1.52	1.98	30.89
1900	2.20	3.22	2.07	2.98	4.96	2.67	5.81	5.88	3.58	3.70	2.10	0.57	39.74
1901	1.10	1.47	3.52	0.43	2.79	2.83	3.76	1.21	3.15	0.92	1.20	2.05	24.43
1902	0.63	1.43	2.86	1.74	7.62	8.76	5.85	1.53	4.71	1.62	3.06	2.10	41.91
1903	0.58	1.81	3.51	4.91	3.73	2.75	4.93	7.66	5.49	4.35	1.15	1.68	42.55
1904	1.74	1.38	4.55	3.41	3.17	1.53	3.41	2.95	4.11	1.95	0.13	3.34	31.67
1905	0.66	1.69	3.77	3.59	6.38	3.76	3.67	3.83	0.77	4.10	2.29	1.48	35.99
1906	3.72	2.17	3.24	2.09	4.05	4.93	2.83	6.02	4.68	2.56	2.85	1.59	40.78
1907	3.68	0.76	1.49	3.46	3.20	5.81	6.65	4.09	6.45	0.71	1.45	1.77	39.52
1908	1.00	2.57	5.41	4.48	8.17	3.51	4.59	2.85	1.15	1.02	3.66	0.85	39.26
1909	2.52	2.63	1.41	7.75	3.47	4.52	1.03	6.82	2.18	1.11	4.00	4.32	41.76
1910	2.41	0.69	0.36	4.56	4.73	1.01	2.32	3.70	2.61	0.78	1.90	0.91	25.98
1911	0.91	3.13	0.61	5.42	2.75	3.20	1.09	7.58	7.57	3.32	4.65	2.10	42.33
1912	0.44	1.34	2.07	2.50	3.53	3.36	6.81	8.11	4.00	4.59	1.83	1.60	40.18
1913	1.12	1.44	3.48	1.96	6.06	3.20	4.89	5.15	2.76	3.32	1.90	0.30	35.58
1914	1.27	1.15	4.11	1.32	6.05	7.37	0.84	2.25	3.92	1.75	0.56	2.16	32.75

†Values are for Rockford, in the same county.

Values for 1914 are for Rockford, in the same county.

PRECIPITATION FOR EXTREME NORTHERN DISTRICT  
AVERAGE OF ALL STATIONS

Year.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1857	...	...	3.26	2.39	3.64	8.34	4.01	6.10	2.56	4.76	1.91	1.30	....
1858	2.37	1.29	2.08	3.98	6.87	7.45	3.36	2.85	5.59	2.94	4.50	1.88	45.16
1859	1.28	1.36	4.88	3.44	2.82	2.42	1.89	1.34	2.57	0.68	3.04	0.79	26.51
1860	1.14	2.00	0.78	1.19	4.28	4.47	...	2.26	5.48	2.17	2.44	3.30	....
1861	2.66	4.87	2.41	4.98	5.39	1.33	5.78	3.05	6.89	3.56	1.75	1.84	44.51
1862	3.78	1.02	2.16	5.59	3.67	3.09	...	6.98	5.96	2.76	0.93	1.52	....
1863	2.86	...	1.65	...	5.05	1.67	2.10	2.24	1.63	3.49	2.22	3.62	....
1864	2.05	0.30	2.71	2.66	1.46	1.13	5.83	1.88	3.57	2.28	2.27	2.76	28.90
1865	0.27	3.25	3.58	4.33	1.56	4.66	6.17	7.22	9.09	3.53	0.42	0.74	44.82
1866	2.49	0.98	2.00	3.06	1.90	4.45	5.03	7.52	4.19	2.86	0.59	3.84	38.91
1867	2.86	2.83	1.58	1.43	4.65	3.74	1.58	3.33	1.53	0.50	1.68	1.03	26.74
1868	0.82	0.77	4.98	4.43	3.82	5.12	2.93	1.60	5.23	1.00	3.31	1.30	35.31
1869	1.39	2.14	0.95	2.76	5.13	7.19	2.60	4.40	2.41	0.90	2.57	2.73	35.17
1870	2.57	0.67	3.92	1.41	0.89	1.55	4.20	3.72	4.64	2.94	0.64	1.14	28.29
1871	2.82	1.30	2.23	2.05	2.32	5.17	1.04	3.07	0.68	2.97	2.25	1.93	27.83
1872	0.45	0.42	2.78	3.47	3.41	3.22	4.38	3.31	8.89	0.62	1.47	0.84	33.26
1873	1.97	0.32	1.56	1.95	4.99	2.79	1.83	3.17	1.81	2.33	1.31	2.58	26.61
1874	3.99	0.78	1.31	1.75	1.32	3.26	1.53	1.81	5.55	1.67	2.43	0.57	25.97
1875	0.97	1.80	0.91	2.79	2.85	5.61	5.48	1.88	5.38	2.54	0.55	2.54	33.30
1876	3.28	2.71	3.28	3.34	5.46	5.24	6.85	3.07	5.00	1.27	3.72	0.51	43.73
1877	2.20	0.22	5.52	3.63	2.29	5.06	2.20	3.91	0.52	6.06	3.50	2.52	37.63
1878	0.61	1.58	3.10	3.52	4.32	3.44	5.73	2.30	2.49	4.90	0.86	1.63	34.48
1879	0.68	1.30	1.04	2.46	3.07	4.27	6.53	2.63	1.25	1.54	5.35	1.28	31.40
1880	3.11	1.62	2.34	3.92	3.66	4.77	2.43	4.33	4.47	1.36	1.64	0.80	34.45
1881	1.71	5.51	4.31	1.26	2.52	6.51	7.96	1.03	5.79	6.06	2.47	2.56	47.69
1882	1.20	1.69	3.29	4.51	3.65	5.52	2.76	3.00	1.70	4.02	1.89	2.19	35.42
1883	1.93	3.68	0.59	1.96	6.52	4.42	4.56	1.72	1.49	5.51	3.36	1.68	37.42
1884	1.16	2.06	2.53	3.13	3.53	5.36	5.44	3.74	4.03	5.12	1.80	5.10	43.05
1885	2.22	1.91	0.30	4.08	2.28	5.72	4.36	8.30	4.43	3.20	1.66	3.16	41.62
1886	4.63	2.44	4.28	3.65	4.29	2.02	0.60	5.83	2.46	3.67	1.52	1.37	36.76
1887	3.83	5.31	1.33	1.19	1.86	1.08	2.84	4.52	4.93	2.29	1.35	4.10	34.63
1888	1.52	1.28	2.97	2.40	5.70	1.95	4.89	2.44	1.26	1.73	2.33	2.33	30.80
1889	2.30	1.51	1.18	3.19	5.36	3.63	2.89	0.52	1.76	0.60	2.08	2.28	27.30
1890	2.79	2.18	2.06	3.37	4.92	10.81	0.76	3.83	1.22	6.03	2.03	1.31	41.31
1891	2.25	1.50	3.00	3.90	2.98	4.12	2.73	1.88	0.81	1.58	3.61	1.82	30.18
1892	2.82	1.58	1.71	4.20	9.38	12.79	4.27	5.32	2.04	0.64	2.14	2.42	49.31
1893	2.40	1.96	2.61	4.69	2.99	4.58	3.10	0.82	3.16	2.76	1.89	1.49	32.45
1894	1.57	1.46	3.22	2.59	3.10	1.88	0.82	1.30	7.25	1.68	1.79	0.36	27.02
1895	1.90	0.67	1.85	1.20	3.34	1.70	3.08	2.95	2.41	0.93	2.91	2.60	25.54
1896	0.76	1.97	1.59	4.51	6.36	2.75	4.94	2.72	7.48	1.08	2.33	0.70	37.19
1897	4.04	1.44	4.30	3.45	1.34	3.69	3.03	1.18	1.54	0.69	1.70	1.68	28.08
1898	2.99	2.63	3.98	2.73	3.89	4.27	2.50	5.35	2.80	3.45	1.46	0.66	36.71
1899	0.48	1.08	1.69	2.19	5.96	2.73	5.01	2.23	1.47	1.79	1.26	1.90	27.79
1900	1.61	2.96	1.58	2.47	4.06	2.49	5.97	6.18	8.24	3.11	1.92	0.47	36.06
1901	1.24	1.66	3.43	0.54	2.23	2.66	3.21	1.07	2.84	0.97	0.92	1.43	22.20
1902	0.57	1.46	2.41	1.32	7.68	7.27	6.55	1.21	5.51	2.50	2.31	1.85	40.64
1903	0.50	1.22	3.05	4.01	3.53	2.24	5.66	7.38	5.49	2.32	0.93	1.27	37.60
1904	1.50	1.19	4.20	2.50	3.08	1.28	3.24	3.08	3.76	1.90	0.23	2.06	28.02
1905	0.78	1.66	3.17	3.11	5.66	3.93	3.35	4.14	1.72	3.86	2.13	1.33	34.84
1906	3.04	1.90	2.39	1.56	3.01	3.44	2.37	5.14	4.26	2.05	2.93	1.61	33.70
1907	3.27	0.49	1.64	2.52	3.55	4.83	4.74	4.00	5.55	0.76	1.35	1.18	33.88
1908	1.16	2.29	3.87	3.80	6.76	3.11	3.39	2.29	0.94	1.05	2.43	0.80	31.89
1909	2.32	2.04	0.97	7.25	2.94	4.03	1.01	5.87	3.41	1.01	3.72	3.61	38.18
1910	2.15	0.62	0.22	3.59	4.42	1.15	1.44	3.70	2.64	1.24	1.38	0.76	23.31
1911	0.82	2.95	0.55	4.79	2.81	3.21	1.68	7.52	5.62	2.87	4.43	1.96	39.21
1912	0.44	1.23	1.77	2.59	3.79	3.47	6.66	5.62	3.61	4.89	1.48	1.26	36.36
1913	1.17	1.37	2.71	1.95	6.10	2.26	4.64	3.29	3.30	3.49	1.66	0.34	32.28
1914	1.48	1.11	3.33	1.58	5.80	6.35	1.53	2.46	4.14	2.35	0.50	2.16	32.79
1915	1.75	2.36	1.18	0.44	7.14	4.03	5.12	2.12	6.96	1.61	2.38	0.46	35.55
1916	3.76	0.93	3.63	1.91	3.47	6.75	1.22	2.09	5.51	4.04	1.72	1.75	36.78



# PRECIPITATION FOR CENTRAL-NORTHERN DISTRICT BY STATIONS

## ALEDO, MERCER COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1900	....	....	....	....	....	....	....	....	....	....	....	0.35	....
1901	1.44	1.88	2.72	1.28	1.93	2.28	2.16	0.44	2.36	0.87	1.06	0.91	19.33
1902	0.58	0.82	2.57	3.39	5.36	7.81	8.79	6.89	5.11	3.51	2.10	1.96	48.89
1903	0.73	1.53	1.86	3.60	6.26	3.84	1.89	6.53	6.35	5.09	0.98	0.66	39.32
1904	1.84	0.37	2.78	1.95	3.33	2.03	4.49	7.58	3.62	0.62	0.15	1.75	30.51
1905	0.58	1.52	2.06	3.72	3.24	4.52	2.46	2.14	1.70	2.33	2.05	1.29	27.61
1906	2.57	2.28	2.42	2.40	4.37	4.91	1.18	3.20	5.63	1.57	3.12	1.67	35.32
1907	4.10	0.26	2.87	2.27	5.13	2.66	6.74	5.60	2.02	0.62	1.40	0.54	34.21
1908	0.47	2.58	1.85	2.20	6.88	4.93	3.98	5.73	1.92	1.40	2.63	0.72	35.29
1909	1.32	2.34	1.61	4.00	4.19	3.36	4.10	0.44	3.04	2.23	4.79	3.66	35.08
1910	1.79	0.98	0.70	3.62	4.37	2.82	2.15	2.73	2.95	0.87	0.42	0.95	24.35
1911	1.52	2.99	1.37	3.29	1.98	1.30	3.84	1.85	13.44	2.50	4.06	1.90	40.04
1912	0.17	1.08	1.55	2.95	1.78	2.09	4.47	1.40	1.77	4.71	0.88	0.74	23.59
1913	1.09	1.77	2.87	2.14	5.62	5.61	0.10	2.49	2.19	2.81	1.24	0.83	28.76
1914	1.10	0.76	2.36	1.00	2.62	4.87	0.67	1.48	7.01	2.81	0.38	1.76	26.82
1915	1.53	2.17	0.59	0.72	6.62	2.66	7.30	1.59	6.73	0.67	3.45	0.99	35.02
1916	4.71	0.22	2.63	2.59	6.37	5.11	0.49	1.11	3.20	3.65	1.51	1.41	33.00

## AURORA, KANE COUNTY, ILLINOIS

1857	....	....	....	....	....	....	....	....	....	4.40	2.57	1.00	....
1858	2.19	1.34	2.38	5.19	6.83	5.07	5.69	3.84	5.01	3.91	3.64	2.41	47.50
1859	1.82	1.22	6.00	2.90	2.69	2.88	2.02	2.52	3.06	1.53	3.08	0.75	30.47
1860	....	1.62	0.66	2.28	4.57	3.13	6.10	1.67	3.01	....	....	2.95	....
1861	1.05	2.40	....	....	....	....	....	....	....	....	....	....	....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1865	....	....	....	....	....	....	....	....	....	....	0.57	0.60	....
1866	1.97	0.77	2.01	0.95	1.67	2.32	3.21	6.02	4.80	2.50	0.94	3.08	30.24
1867	2.45	3.30	1.49	2.39	5.24	3.41	2.98	2.79	2.54	1.21	2.17	1.29	31.26
1868	0.90	1.05	6.86	4.91	2.55	3.00	2.28	4.50	5.47	2.07	2.55	....	....
1869	....	....	....	....	....	....	....	....	....	....	....	3.63	....
1870	5.48	2.45	1.92	1.58	1.35	1.63	5.50	3.31	3.63	4.63	1.51	1.37	34.36
1871	....	1.80	3.04	2.33	4.48	4.75	1.75	1.97	0.73	3.41	2.58	2.21	....
1872	0.35	0.65	2.76	....	....	....	....	....	6.20	0.90	1.18	0.70	....
1873	5.34	0.57	1.50	3.93	3.23	2.20	5.43	3.61	....	2.50	1.30	....	....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1879	....	....	....	....	....	....	0.38	1.56	0.76	2.40	4.17	1.70	....
1880	4.08	3.55	2.25	4.36	6.10	3.91	5.63	7.46	3.22	2.14	1.03	0.76	44.49
1881	1.17	8.06	3.88	1.68	2.61	5.80	3.19	0.73	3.24	7.15	4.97	3.27	45.75
1882	1.14	2.95	2.83	5.98	5.04	†3.33	†3.89	4.70	1.39	3.21	2.10	2.47	43.03
1883	2.63	7.27	0.61	3.75	7.23	3.56	4.44	0.95	1.57	6.34	5.55	2.61	46.51
1884	1.24	3.74	2.30	2.66	2.26	2.18	6.38	2.48	2.42	4.61	1.90	4.59	36.76
1885	2.31	2.09	0.38	3.31	3.16	5.07	2.59	7.72	4.04	3.74	2.04	3.05	39.50
1886	3.63	1.76	3.00	4.24	5.39	1.27	0.36	2.97	5.60	1.80	1.26	1.18	32.46
1887	4.36	5.86	1.06	0.82	3.02	0.58	2.34	3.79	4.33	3.54	2.21	4.25	36.16
1888	1.40	1.56	3.19	2.08	5.16	0.98	3.20	5.66	1.89	3.10	3.27	2.61	34.10
1889	2.06	1.32	1.47	2.63	3.82	4.38	5.08	†1.21	3.82	1.11	2.87	2.53	32.30
1890	3.24	1.18	2.64	2.17	4.25	6.97	0.78	2.38	1.90	4.53	1.79	0.78	32.61
1891	2.35	2.28	2.57	3.94	2.14	3.24	2.35	5.01	0.66	0.68	4.21	1.66	31.09
1892	1.53	1.18	2.28	3.59	8.29	12.83	4.48	2.74	2.36	1.28	1.63	2.26	44.45
1893	1.36	2.25	2.69	4.65	2.10	3.05	1.19	0.32	2.70	3.20	2.99	2.60	29.10
1894	2.96	1.95	1.17	2.49	2.76	1.87	0.62	1.79	7.07	1.68	1.93	0.96	29.25
1895	1.53	0.50	3.14	1.48	3.34	1.66	3.83	4.80	1.17	1.11	5.41	5.89	31.86

†Interpolated from surrounding stations.

AURORA, KANE COUNTY—*Concluded*

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1896	0.91	1.91	1.75	3.75	6.12	2.06	5.60	2.43	6.92	0.22	3.83	0.16	35.66
1897	6.02	1.73	3.58	3.04	1.06	5.25	4.45	2.23	0.85	0.21	3.89	1.32	33.63
1898	4.26	3.21	5.09	1.30	4.43	5.39	1.07	4.22	4.25	4.66	2.60	1.66	42.14
1899	0.55	1.75	2.92	0.49	7.34	1.59	4.82	1.84	2.23	2.13	1.05	1.61	28.32
1900	1.68	3.72	2.23	0.78	4.17	2.94	3.55	3.28	1.99	2.83	3.23	0.41	30.81
1901	1.39	1.73	4.11	0.39	0.71	1.81	4.79	1.06	2.34	1.27	1.21	1.40	22.21
1902	0.47	2.05	3.14	2.16	6.18	13.19	7.43	2.32	7.29	2.02	2.93	1.71	50.89
1903	0.83	1.94	3.94	4.23	3.11	4.09	5.59	5.39	7.45	2.69	0.54	1.74	41.54
1904	2.12	1.47	5.02	4.21	2.51	1.96	3.81	5.62	5.05	1.53	0.06	1.69	35.05
1905	0.93	1.33	2.33	3.85	5.94	6.16	2.72	4.00	2.36	2.32	2.21	1.35	35.50
1906	3.10	2.52	2.12	1.57	3.10	1.67	2.12	3.80	8.31	2.25	2.64	2.48	35.68
1907	3.69	0.26	3.17	2.00	4.90	3.70	5.51	6.72	6.08	1.43	1.62	1.07	40.15
1908	0.81	3.86	3.58	3.10	7.19	1.43	4.50	5.35	0.95	0.67	2.02	0.97	44.43
1909	1.43	2.57	1.34	8.38	2.64	4.71	0.48	2.92	3.28	1.25	4.33	3.43	36.76
1910	2.35	0.82	0.36	3.96	6.20	0.50	1.66	4.04	4.47	1.20	1.44	1.11	28.11
1911	1.13	1.70	1.13	2.23	2.31	4.64	2.06	5.84	7.23	3.64	2.78	1.77	36.46
1912	*0.49	0.80	1.14	2.63	5.33	1.52	4.33	2.74	2.55	4.58	1.70	*0.87	28.68
1913	*1.53	2.80	3.43	2.16	7.01	1.05	3.58	4.37	1.68	3.85	1.74	0.46	33.66
1914	2.64	0.85	1.61	0.98	5.53	6.64	1.23	3.67	2.84	2.96	0.88	2.68	32.51
1915	2.39	2.47	0.50	0.62	8.62	3.05	9.60	5.35	4.35	1.14	2.05	1.30	41.44
1916	4.80	0.85	2.45	1.88	3.74	7.19	0.42	1.16	4.15	4.42	2.36	2.53	35.95

\*Values are for Elgin, in the same county.

## CHICAGO, COOK COUNTY, ILLINOIS

1871	4.13	1.45	2.66	3.70	3.90	5.56	2.52	2.01	0.74	1.88	3.62	3.44	35.61
1872	0.68	0.84	3.79	3.03	3.24	3.45	3.09	2.59	6.43	0.65	1.06	0.22	29.07
1873	2.56	0.47	0.89	6.22	7.20	1.44	4.04	1.58	3.53	2.43	1.61	4.44	36.41
1874	3.47	1.51	2.15	2.67	2.08	3.25	0.58	3.15	3.76	2.55	2.83	0.63	28.63
1875	0.96	1.99	1.43	2.32	3.64	5.17	7.18	3.29	4.39	4.32	0.75	2.62	38.06
1876	3.22	3.90	4.04	2.07	1.85	5.96	3.11	3.66	3.74	1.20	3.25	0.48	36.48
1877	1.91	0.06	5.37	2.42	1.81	6.04	2.98	3.06	2.02	6.51	6.08	2.75	41.01
1878	1.31	2.12	4.39	5.57	5.22	3.02	6.09	3.66	1.99	5.17	0.83	2.58	41.95
1879	0.54	1.47	2.37	1.93	3.89	3.18	5.58	0.45	1.18	2.72	4.93	2.47	30.71
1880	3.53	2.91	2.25	5.20	4.97	3.50	3.07	4.47	2.25	3.19	0.87	1.11	37.32
1881	0.87	5.98	2.99	1.84	1.85	5.93	4.31	0.54	4.34	6.89	5.97	2.67	44.18
1882	1.55	2.24	3.43	6.72	5.52	5.71	3.43	4.96	0.91	3.40	1.48	1.99	41.34
1883	1.74	4.74	0.42	3.72	7.32	5.61	5.53	1.21	1.36	7.36	5.26	1.59	45.86
1884	1.39	3.27	5.16	3.05	1.53	2.11	3.71	2.50	2.29	3.59	1.80	4.21	34.61
1885	3.18	2.01	0.57	4.00	3.17	5.20	2.44	11.28	2.97	3.87	2.33	3.35	44.37
1886	3.56	1.51	1.79	1.29	1.00	0.94	1.53	3.38	6.93	1.42	1.66	1.76	26.77
1887	3.13	5.10	0.89	0.46	1.38	1.63	1.05	3.35	4.03	2.03	2.41	3.67	29.13
1888	1.56	1.51	2.99	2.13	6.22	1.66	3.93	2.10	0.98	2.95	2.89	1.94	30.86
1889	1.64	1.31	1.43	2.35	5.38	2.93	9.56	0.39	2.75	1.82	3.49	1.90	34.95
1890	2.98	2.42	2.10	3.23	5.13	3.25	2.57	2.58	1.39	4.20	1.59	1.25	32.69
1891	1.99	1.95	2.13	3.14	2.09	2.42	2.47	4.52	0.32	0.36	3.83	1.32	26.54
1892	1.99	1.57	2.21	2.17	6.77	10.58	2.23	1.85	1.34	1.54	2.68	1.63	36.56
1893	2.08	2.44	1.69	4.16	4.93	3.59	3.08	0.18	1.98	1.75	2.45	2.14	30.47
1894	1.55	2.13	2.66	2.65	3.35	1.96	0.60	0.60	8.28	0.84	1.18	1.66	27.46
1895	2.15	1.60	1.32	0.86	1.99	1.79	2.42	6.49	0.89	0.51	5.60	6.76	32.38
1896	1.12	3.48	1.26	2.79	4.16	2.82	3.61	3.52	6.70	1.36	2.16	0.16	33.14
1897	4.53	2.22	3.56	2.23	0.84	3.60	1.47	1.70	0.84	0.18	3.06	1.62	25.85
1898	3.54	2.59	4.60	0.76	2.23	5.30	1.94	3.03	3.16	3.26	2.25	1.11	33.77
1899	0.58	1.60	2.11	0.14	4.35	2.71	6.66	0.91	2.39	2.09	1.14	0.81	26.49
1900	1.21	3.52	1.58	1.02	3.59	2.06	4.64	4.24	1.56	1.35	3.30	1.58	28.65
1901	1.15	2.05	3.38	0.33	2.18	2.42	4.25	2.00	2.92	1.29	0.85	1.70	24.52
1902	0.66	1.53	4.16	2.26	5.08	6.45	5.78	1.44	4.83	1.45	2.03	1.90	37.57
1903	1.09	3.03	1.67	3.77	0.93	1.62	4.78	3.49	4.00	1.09	0.34	2.28	28.09
1904	2.25	1.71	4.57	3.01	1.54	0.55	2.76	4.00	2.65	1.58	0.31	1.21	26.14
1905	1.33	1.95	2.43	3.03	5.14	3.27	5.02	4.46	4.18	1.82	2.05	0.68	35.36



CHICAGO, COOK COUNTY—*Concluded*

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1906	1.67	2.37	1.61	1.86	2.09	1.87	4.84	1.43	5.54	2.05	3.08	2.46	30.87
1907	4.21	1.00	2.94	2.37	3.50	3.64	3.15	4.22	4.49	0.93	1.92	2.73	35.10
1908	2.05	3.72	3.48	2.81	6.74	1.48	1.45	6.35	2.09	0.81	2.67	1.18	34.83
1909	1.96	3.82	1.63	7.73	2.18	5.09	1.77	6.20	3.60	1.20	3.84	4.18	43.20
1910	3.07	0.89	0.29	3.84	4.67	0.91	1.79	3.08	3.90	1.79	1.31	1.32	26.86
1911	1.17	2.27	1.45	3.03	3.37	2.54	2.65	3.72	4.03	3.79	3.27	2.54	33.83
1912	0.84	1.57	2.20	2.55	3.97	1.78	3.86	3.59	3.26	3.52	1.45	1.08	29.67
1913	1.33	1.97	3.44	1.91	4.33	1.08	3.30	4.06	1.49	2.23	1.47	0.45	27.11
1914	3.01	0.93	1.87	1.07	5.22	3.53	2.11	3.76	1.56	2.89	0.33	2.33	28.61
1915	1.99	1.92	0.60	1.02	7.04	3.60	5.57	4.33	3.53	0.40	2.03	1.31	33.34
1916	4.84	0.87	2.48	1.60	2.93	7.25	2.22	1.05	2.24	3.88	2.11	2.58	34.05

## DAVENPORT, SCOTT COUNTY, IOWA

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1871	.....	.....	.....	.....	.....	3.68	2.30	4.85	0.30	3.19	3.33	1.61	.....
1872	0.13	0.10	1.82	5.06	4.46	3.78	3.80	8.91	5.30	0.61	1.86	0.61	36.44
1873	3.56	0.77	1.43	3.96	6.37	2.16	2.37	0.51	1.00	1.48	0.63	3.84	28.08
1874	4.34	0.74	1.34	2.64	3.45	5.37	3.10	3.68	7.86	1.30	2.47	0.50	36.79
1875	0.38	1.09	0.88	2.30	2.01	4.91	9.36	1.73	4.05	1.63	0.57	3.08	31.99
1876	3.47	3.63	4.35	5.39	6.70	4.25	4.82	4.27	5.50	1.54	2.54	0.36	46.82
1877	1.41	0.07	3.31	3.28	2.82	5.80	3.42	3.21	1.45	4.88	2.53	2.32	35.10
1878	0.36	1.09	2.21	2.89	5.14	4.36	2.19	5.07	1.82	4.21	0.90	0.97	31.21
1879	0.79	1.09	1.80	1.54	5.83	4.57	5.87	4.33	1.43	0.92	4.70	1.02	33.89
1880	3.13	1.72	2.68	4.50	5.09	7.21	4.31	5.90	4.87	0.94	1.23	1.15	42.73
1881	1.34	4.14	3.33	1.11	1.34	7.94	0.91	0.83	5.59	6.85	2.19	1.71	37.28
1882	0.90	0.62	2.90	3.15	5.49	8.43	4.41	2.29	1.39	3.75	1.49	1.78	36.60
1883	1.16	4.42	0.73	3.33	5.46	4.38	3.66	1.02	0.73	5.13	3.58	0.99	34.59
1884	0.75	0.98	3.27	0.77	3.79	3.07	4.51	3.84	4.79	7.17	1.49	3.68	38.11
1885	2.10	1.20	0.17	2.47	1.94	2.08	1.66	12.68	4.19	2.71	1.20	1.95	34.35
1886	2.22	1.52	3.08	1.84	3.73	0.49	0.43	2.67	2.43	3.47	0.74	0.53	23.15
1887	1.43	4.87	0.77	1.17	1.76	1.66	3.09	3.23	5.45	3.41	1.13	3.26	31.23
1888	1.54	1.17	2.70	1.57	9.23	3.86	7.31	2.79	1.38	2.81	3.54	2.59	40.49
1889	0.95	1.44	1.74	3.89	6.34	5.59	8.25	1.11	3.27	1.26	2.17	1.60	37.61
1890	2.49	1.10	2.34	0.86	4.33	4.51	0.85	1.66	2.34	3.63	1.37	0.62	26.10
1891	2.38	0.89	1.68	3.30	2.74	3.56	3.29	5.54	1.50	1.37	3.56	1.64	31.45
1892	1.60	1.38	3.06	5.41	8.84	10.79	4.16	1.53	2.09	0.55	2.01	2.73	44.15
1893	1.14	1.69	2.25	4.50	2.67	3.82	1.75	1.12	3.36	0.80	2.56	1.67	27.33
1894	1.33	1.48	1.88	1.37	1.93	2.16	0.44	2.02	3.02	1.02	1.26	0.61	18.52
1895	1.27	0.38	1.57	0.32	2.28	1.22	5.16	4.79	4.30	0.81	2.50	2.54	27.14
1896	0.89	1.45	0.84	3.41	4.03	2.38	5.68	3.12	3.98	1.67	0.68	0.65	28.68
1897	3.58	1.57	2.82	3.69	1.91	1.37	3.21	0.68	1.52	0.35	1.68	1.53	23.91
1898	3.68	1.86	4.85	3.01	6.73	3.53	1.85	4.96	3.14	3.38	1.37	0.59	38.95
1899	0.31	1.91	1.94	2.94	7.35	4.02	2.84	4.47	0.82	1.46	0.90	2.68	31.64
1900	1.27	2.45	2.92	2.10	4.68	1.01	3.49	4.90	3.66	2.00	1.48	0.21	30.17
1901	1.10	1.59	2.57	0.88	1.37	3.02	1.48	0.46	2.29	0.45	0.79	1.33	17.33
1902	0.60	0.96	1.76	1.40	4.57	7.55	6.38	7.25	3.20	2.81	1.95	1.88	40.31
1903	0.79	1.67	2.06	3.42	5.52	2.28	4.47	4.68	7.09	2.27	0.70	0.78	35.73
1904	2.20	0.72	2.70	2.05	2.64	1.44	3.34	3.60	3.98	1.15	0.18	2.21	26.21
1905	0.63	1.99	2.21	3.45	3.12	7.68	0.99	1.93	3.48	2.73	2.01	1.32	31.54
1906	2.14	2.21	2.20	1.92	2.60	2.69	2.26	3.50	2.47	1.67	2.66	1.61	27.93
1907	3.55	0.22	1.79	1.90	4.33	2.07	7.13	6.48	3.55	0.70	1.08	0.49	33.29
1908	0.69	2.37	2.24	2.22	5.13	4.57	3.30	6.23	1.12	0.87	2.46	0.40	31.60
1909	1.72	2.30	1.60	6.02	3.23	2.80	4.68	2.34	1.50	2.37	3.92	3.12	35.60
1910	1.69	0.59	0.39	3.69	3.42	0.91	2.86	4.31	2.40	0.61	0.22	0.85	21.94
1911	1.41	4.10	1.08	3.63	2.25	2.00	5.12	4.92	5.13	1.57	3.84	1.52	36.57
1912	0.18	1.21	2.34	2.76	2.75	3.19	2.79	2.77	2.28	4.04	0.98	0.56	25.85
1913	1.04	1.57	1.99	2.19	4.89	6.09	0.18	2.06	1.80	3.01	1.26	0.54	26.62
1914	0.87	0.76	2.96	0.89	1.40	8.84	0.44	2.01	6.27	2.15	0.24	1.67	28.50
1915	2.11	2.42	0.83	0.62	6.07	3.47	8.05	1.77	5.75	0.36	4.07	1.13	36.65
1916	4.63	0.37	2.47	2.45	3.52	3.19	0.46	1.25	2.82	3.52	1.45	1.44	27.57

## DIXON, LEE COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1886	4.29	2.79	3.68	3.60	6.32	....	0.32	1.33	2.94	....	1.41	1.32	.....
1887	4.21	4.89	1.66	1.10	2.51	2.03	2.35	3.92	3.62	3.76	1.46	9.02	40.53
1888	2.55	1.40	1.89	1.77	7.08	....	....	....	....	....	....	....	....
1892	2.22	1.69	2.24	3.27	8.93	7.61	3.84	1.94	2.56	1.07	1.67	2.52	39.56
1893	2.07	1.94	2.83	4.02	2.99	4.42	3.74	0.89	3.22	1.05	2.13	1.69	30.49
1894	2.15	1.97	3.12	2.04	4.28	1.91	0.15	0.92	3.20	0.99	1.42	0.53	22.68
1895	1.22	0.43	0.83	1.17	4.46	1.62	4.59	2.83	1.81	0.82	2.50	2.00	24.28
1896	0.65	0.74	0.81	3.62	5.87	3.18	4.81	3.75	4.66	0.89	1.70	0.44	31.12
1897	3.00	1.25	4.25	3.43	0.96	5.27	1.97	0.56	2.00	0.48	1.90	1.17	26.24
1898	3.27	2.26	4.74	3.29	4.00	2.49	1.55	6.39	3.01	2.56	1.19	0.78	35.53
1899	0.30	1.25	1.67	1.56	6.76	1.91	2.82	1.83	1.48	3.48	0.56	1.81	25.43
1900	2.06	1.86	2.86	1.32	5.25	1.32	4.86	6.18	4.39	3.41	2.10	0.34	35.45
1901	1.09	0.54	2.98	0.34	2.28	2.48	8.98	0.53	2.36	0.90	1.00	1.13	24.61
1902	0.43	1.05	1.81	1.69	8.00	9.75	8.47	2.62	4.63	3.90	2.37	2.13	46.85
1903	2.76	0.90	3.07	4.20	4.35	1.46	4.91	5.64	6.13	3.21	0.73	1.16	38.52
1904	2.23	0.79	3.07	2.29	3.26	2.27	7.58	3.45	5.46	0.86	0.03	2.17	33.46
1905	0.32	1.24	3.35	3.66	6.15	3.35	1.97	4.15	1.23	3.15	1.83	1.12	31.52
1906	2.07	2.46	2.70	2.70	7.24	6.33	5.12	2.09	4.70	1.84	2.19	1.52	40.96
1907	3.43	0.22	2.08	2.11	4.89	3.19	8.76	5.33	4.95	1.71	1.23	0.59	38.49
1908	0.72	2.82	3.38	3.29	5.16	2.24	4.18	5.68	0.84	0.90	2.45	0.84	32.50
1909	2.78	1.89	1.46	6.40	4.34	5.72	1.51	1.13	2.81	2.42	2.59	3.14	36.19
1910	†1.60	0.65	0.20	3.43	4.22	0.45	0.70	3.14	4.76	0.54	0.85	0.89	21.43
1911	0.73	3.52	0.67	3.73	2.69	3.64	3.38	6.62	6.77	2.08	5.47	1.47	40.77
1912	0.50	1.46	1.72	3.07	2.84	1.63	3.34	5.06	3.57	5.13	1.38	1.34	31.04
1913	0.94	1.71	2.64	2.55	5.27	3.15	1.47	2.57	2.57	3.22	0.76	1.17	28.02
1914	1.07	0.93	3.35	1.42	4.78	5.97	2.60	1.15	6.75	3.02	0.42	1.89	33.35
1915	1.11	2.30	1.42	0.35	6.58	4.68	10.34	2.28	5.52	0.30	2.52	1.25	38.65
1916	3.89	0.51	2.30	1.28	3.13	6.37	0.20	4.42	3.04	4.63	1.43	1.73	32.93

Values prior to 1892 are from Prairieville, 7 miles distant.

†Estimated.

## DWIGHT, LIVINGSTON COUNTY, ILLINOIS

1896	1.30	1.94	0.89	1.93	3.85	3.13	4.61	2.61	5.09	0.64	3.54	0.11	29.67
1897	5.34	1.46	3.57	2.74	1.81	5.25	2.50	1.60	0.81	0.44	4.77	1.59	31.88
1898	3.80	2.07	6.64	2.95	6.12	3.79	0.29	3.35	4.86	4.42	2.50	1.26	42.05
1899	0.80	2.13	1.76	0.70	2.08	5.07	4.73	2.29	2.57	2.31	2.03	2.06	28.53
1900	1.76	4.50	2.87	1.09	3.72	2.99	4.49	5.03	1.99	1.69	3.35	0.42	33.90
1901	1.60	1.03	3.17	0.50	1.93	3.71	2.00	1.67	2.05	1.44	1.14	2.54	22.78
1902	0.44	1.43	3.82	2.10	5.72	11.53	7.52	3.62	5.36	2.09	3.11	1.49	48.23
1903	1.55	3.17	2.50	5.14	3.24	2.37	....	....	....	....	....	....	....
1904	....	....	....	....	....	....	....	....	....	....	....	....	....
1905	....	....	....	....	....	....	....	....	....	....	....	....	....
1906	2.99	1.76	2.15	2.06	2.07	2.49	4.84	1.85	3.80	1.54	2.80	2.64	30.99
1907	5.38	0.14	2.22	2.56	3.13	2.88	8.85	7.30	6.34	0.45	2.02	3.01	44.28
1908	1.06	3.41	3.27	3.89	6.79	0.97	2.61	1.09	1.22	0.61	2.03	1.14	28.09
1909	1.73	4.29	1.79	7.13	2.48	6.06	1.50	3.53	2.34	2.38	4.24	2.96	40.43
1910	2.37	1.05	0.52	3.84	5.11	3.00	1.36	4.66	5.73	1.44	0.26	1.24	30.58
1911	1.91	1.84	2.10	4.58	2.79	1.78	1.18	2.08	6.67	4.30	2.57	2.27	34.07
1912	0.47	1.10	1.72	4.68	4.12	2.84	2.38	2.96	2.65	3.17	2.16	0.83	29.08
1913	2.59	1.89	4.18	2.77	5.97	2.40	1.61	2.33	0.88	2.98	2.06	1.30	30.96
1914	2.17	0.47	1.29	2.09	3.80	1.80	1.33	2.47	2.69	1.48	0.27	2.00	21.86
1915	1.84	2.00	0.70	1.66	5.09	1.51	9.20	6.81	4.37	0.87	1.65	1.36	37.06
1916	6.26	0.32	2.34	1.34	5.06	6.22	T	1.88	1.86	3.19	1.99	2.23	32.69



## GALVA, HENRY COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1864	....	....	....	....	....	....	....	....	2.31	1.94	2.37	2.93	....
1865	3.00	2.95	2.31	4.44	2.56	2.87	4.31	5.25	7.50	2.25	0.19	0.40	38.03
1866	3.06	1.05	1.93	2.06	1.63	2.69	4.56	3.62	8.25	2.00	0.35	3.22	34.42
1867	0.75	1.75	1.95	2.27	6.41	1.62	1.77	2.82	0.82	0.87	1.99	1.25	24.27
1868	3.99	0.83	5.73	3.15	7.04	2.10	1.25	3.38	2.61	0.20	3.20	1.35	34.83
1869	1.17	2.86	1.64	2.07	5.86	2.43	3.73	7.01	....	0.35	....	....	....
1870	....	....	....	....	....	0.38	0.66	3.15	....	....	....	....	....
1871	....	....	....	....	....	....	....	....	....	....	....	....	....
1872	....	....	....	....	....	....	3.13	5.60	5.03	0.70	1.15	2.30	....
1873	2.15	0.25	0.43	5.53	5.11	1.60	3.12	1.15	2.18	1.76	1.08	....	....
1874	2.60	1.16	1.71	4.02	2.18	3.40	1.42	2.53	3.96	1.40	1.93	0.64	26.95
1875	0.14	0.46	1.08	2.62	4.22	4.72	6.66	0.70	2.16	1.24	0.63	1.96	26.59
1876	1.69	2.14	3.56	2.62	5.28	4.67	4.26	0.58	5.10	2.05	1.91	0.58	34.44
1877	....	....	2.18	3.15	2.71	8.87	3.36	1.89	1.05	4.93	3.20	2.56	....
1878	0.24	1.03	2.40	4.87	4.43	3.18	2.16	6.34	1.02	3.20	0.60	2.20	31.67
1879	0.81	0.75	1.31	2.16	0.87	3.66	3.49	3.17	2.06	2.54	2.81	1.11	24.74
1880	3.28	2.30	3.18	3.54	5.23	3.26	2.31	2.52	1.74	1.73	1.83	1.24	32.16
1881	0.92	3.89	3.41	1.53	1.84	8.36	3.94	0.62	4.16	5.93	2.77	1.63	39.00
1882	1.51	1.06	2.93	2.93	4.96	6.23	3.94	6.56	0.92	3.19	1.56	1.71	37.50
1883	1.87	2.75	0.51	4.14	4.31	3.54	4.19	....	....	....	....	....	....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1893	0.95	1.65	2.88	5.73	2.45	1.37	1.08	0.69	3.57	0.46	2.25	1.54	24.62
1894	1.64	0.88	2.53	1.71	2.18	4.14	0.99	1.78	5.17	1.16	1.62	0.62	24.42
1895	1.33	0.19	0.35	1.03	2.53	1.57	5.58	2.74	5.17	0.87	2.18	4.20	27.74
1896	1.17	0.80	0.79	4.24	5.25	3.10	9.45	3.69	6.68	1.30	1.42	0.30	38.19
1897	4.91	1.23	4.64	2.61	1.06	0.92	3.60	1.01	2.46	0.23	2.00	1.08	25.75
1898	3.38	1.43	5.43	2.77	8.74	9.86	0.96	7.13	3.84	2.73	2.19	0.61	49.07
1899	0.24	1.39	2.70	1.44	6.07	2.57	2.82	2.40	2.46	4.34	1.23	1.71	29.37
1900	1.71	2.49	2.95	1.35	4.28	0.51	3.69	8.21	4.65	2.61	1.63	0.16	34.24
1901	1.13	1.77	2.70	0.95	1.51	3.70	4.59	1.38	2.84	1.17	1.08	1.09	23.91
1902	0.44	1.29	4.17	2.07	5.01	8.96	10.54	3.78	6.04	3.28	1.82	1.64	49.04
1903	0.74	1.95	2.72	4.07	5.42	3.64	5.77	4.91	5.30	1.88	1.08	0.92	38.40
1904	2.18	0.89	3.66	2.60	3.05	2.49	8.83	5.97	5.49	0.24	0.23	1.96	37.59
1905	0.67	1.64	2.34	4.78	3.96	5.16	2.16	2.58	1.47	2.85	1.87	1.56	31.04
1906	3.01	2.19	2.24	1.92	2.33	3.49	2.10	2.50	4.02	0.69	2.09	1.78	28.36
1907	3.24	0.20	1.27	3.16	2.83	2.44	5.23	6.41	2.69	0.65	1.43	1.11	30.66
1908	1.83	3.01	4.65	3.50	9.32	3.84	2.68	3.91	1.57	1.42	3.64	0.48	39.85
1909	1.17	3.65	1.58	4.08	3.32	2.98	4.74	0.90	2.85	2.60	5.39	3.64	36.90
1910	1.75	1.26	0.33	2.52	5.55	1.53	2.24	0.80	4.11	1.17	0.32	0.89	22.47
1911	1.71	2.75	1.27	3.57	1.62	2.81	3.99	2.44	8.29	2.05	2.76	2.39	35.65
1912	3.18	1.34	2.23	4.65	3.56	2.56	3.16	1.72	2.92	5.85	2.17	0.78	34.12
1913	1.31	2.03	4.35	2.36	4.64	6.18	0.66	3.75	1.85	2.05	1.74	0.69	31.61
1914	0.93	0.83	2.12	1.58	2.37	3.45	0.28	2.03	6.41	2.33	0.38	1.69	24.40
1915	1.81	2.22	0.83	0.80	7.16	3.25	6.85	2.40	4.96	0.28	3.92	0.66	35.14
1916	4.76	0.36	2.99	2.18	5.30	4.71	1.09	2.87	3.85	4.05	1.61	1.98	35.75

Values from 1864 to 1883, inclusive, are for Elmira, 12 miles distant.

## HENRY, MARSHALL COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1871	2.59	2.49	3.20	1.60	1.80	4.70	1.80	3.70	0.50	2.20	2.90	1.90	29.38
1872	....	0.40	0.55	4.10	3.50	5.30	3.30	6.30	5.30	1.50	1.20	0.70	.....
1873	2.52	0.80	0.90	4.50	4.50	0.90	2.20	2.00	2.50	1.80	1.40	4.65	28.67
1874	3.40	1.58	1.20	2.50	3.20	3.30	1.50	1.40	3.20	1.90	3.20	0.50	26.88
1875	0.40	1.90	1.35	2.30	3.70	3.50	8.30	2.10	5.10	1.90	0.67	2.70	33.92
1876	3.40	2.60	2.90	4.00	3.40	5.60	6.10	1.20	2.50	1.20	3.60	0.76	37.26
1877	0.60	....	2.60	3.70	2.40	5.90	3.10	1.00	0.90	6.10	4.00	2.90	.....
1878	0.50	1.80	2.30	5.40	6.10	3.10	1.10	5.60	0.90	2.90	0.40	1.80	31.90
1879	0.60	....	....	....	....	....	....	....	....	....	....	....	.....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1887	2.24	4.55	0.72	0.73	1.52	1.70	1.30	4.80	2.70	2.96	1.48	3.53	28.23
1888	1.07	1.57	2.54	0.93	6.87	2.29	2.14	1.25	1.21	2.71	3.10	2.22	27.90
1889	1.65	0.85	1.60	2.60	4.12	5.72	4.97	0.75	3.83	2.02	1.86	1.45	31.42
1890	2.05	2.03	2.55	3.39	4.54	3.98	0.66	1.45	3.07	5.57	1.45	0.20	30.94
1891	2.36	1.35	3.13	3.50	2.68	6.79	1.99	4.45	0.98	1.43	4.66	2.28	35.60
1892	1.20	0.60	2.63	3.33	12.57	10.01	4.22	0.32	1.25	0.70	2.55	2.30	41.78
1893	1.70	0.90	....	5.10	1.60	2.95	1.25	0.38	1.91	0.95	....	....	.....
1894	....	....	....	....	3.20	4.91	0.25	1.82	7.06	1.29	....	1.11	.....
1895	1.00	0.20	0.86	1.56	1.53	1.39	9.66	2.42	1.46	1.24	4.31	5.16	30.79
1896	0.92	0.97	0.93	4.45	7.05	2.81	9.65	2.13	6.95	0.08	2.75	0.12	38.81
1897	5.47	1.65	3.79	2.36	0.95	7.35	2.92	0.71	0.95	0.18	4.33	1.03	31.69
1898	4.00	†2.10	†6.15	3.68	6.41	3.61	1.10	7.10	6.91	3.11	2.46	1.32	47.95
1899	0.33	1.94	2.26	1.06	5.64	3.00	4.57	1.63	3.12	3.45	1.97	2.48	31.45
1900	1.82	3.67	3.15	1.68	4.76	2.52	2.76	6.79	3.64	3.94	2.25	0.14	37.12
1901	1.45	1.23	3.97	0.96	2.20	2.83	3.40	1.90	2.56	0.83	1.50	1.76	24.59
1902	0.46	1.60	3.60	2.63	4.14	11.21	11.01	5.44	6.10	1.60	3.38	1.88	53.05
1903	1.20	2.59	3.84	5.22	3.85	2.67	3.28	5.50	6.68	1.35	1.69	1.86	39.73
1904	2.84	1.43	4.28	3.51	3.85	3.22	5.73	4.51	3.66	0.31	T	1.71	35.05
1905	1.09	1.76	2.64	3.87	3.60	5.46	2.51	4.20	1.86	2.91	2.21	1.63	33.74
1906	2.23	1.70	2.31	1.65	2.53	3.31	2.57	3.91	5.03	1.92	2.56	2.17	31.89
1907	5.85	0.16	3.20	2.79	3.65	3.79	5.43	4.58	4.51	0.80	1.92	1.23	37.91
1908	1.12	2.51	3.00	4.64	8.90	4.60	2.82	0.94	0.80	0.77	1.87	0.81	32.78
1909	1.44	3.55	1.70	7.11	3.41	3.77	3.81	3.93	3.93	2.48	4.66	3.20	42.99
1910	2.24	1.11	0.12	3.28	6.00	0.96	1.27	1.77	3.53	1.48	0.54	1.25	23.55
1911	2.10	1.91	1.79	*3.57	*1.62	*2.81	3.25	2.99	7.19	2.24	2.63	2.29	34.37
1912	9.18	1.16	1.78	4.87	5.15	1.78	2.30	2.24	3.01	5.12	2.21	1.19	30.99
1913	1.69	3.25	3.91	2.20	4.15	3.74	0.51	*3.75	2.21	2.65	2.09	1.29	31.44
1914	1.53	0.89	4.41	1.33	3.25	2.26	0.22	1.89	4.07	2.99	0.21	1.67	24.72
1915	2.07	2.27	0.95	....	5.51	2.49	6.27	2.17	5.14	1.27	2.32	0.76	.....
1916	5.80	0.56	2.82	1.07	....	6.53	2.29	0.68	2.90	4.04	1.37	1.60	.....

Values from 1871 to 1893, inclusive, are for Hennepin, 10 miles distant.

Values from May, 1894, to January, 1898, inclusive, are for Clear Creek, less than 17 miles distant.

†Estimated. \*Values are for Galva.

## JOLIET, WILL COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1887	....	....	....	....	0.97	2.07	2.47	2.72	2.96	2.95	1.85	3.17	.....
1888	0.90	1.00	2.35	2.10	8.50	1.70	0.70	6.00	0.90	3.30	....	....	.....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1893	....	....	....	....	....	....	....	....	....	....	1.87	1.57	.....
1894	1.16	1.31	2.87	2.23	3.69	2.84	0.46	0.85	5.99	1.18	1.68	1.00	25.26
1895	1.82	0.67	1.04	1.92	1.95	1.26	4.32	2.96	0.93	0.67	2.90	6.62	27.06
1896	1.14	2.07	1.15	2.82	5.28	3.89	4.97	2.75	6.69	0.86	2.96	0.36	34.94
1897	6.67	1.84	3.80	2.87	1.25	5.19	1.59	0.55	0.63	0.44	4.42	1.68	30.93
1898	4.05	2.28	6.12	1.42	3.82	7.89	1.59	4.69	3.20	4.53	2.61	2.15	44.35
1899	0.82	1.68	2.23	0.35	4.69	2.17	5.26	1.74	2.44	2.39	1.15	1.70	26.62
1900	1.58	4.29	2.24	0.79	4.27	1.80	5.08	5.74	2.05	1.61	3.10	0.53	33.08



JOLIET, WILL COUNTY—*Concluded*

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1901	1.88	1.62	3.62	0.56	0.81	3.14	5.42	2.84	2.55	0.85	1.63	2.36	27.28
1902	0.55	1.43	5.51	2.36	7.48	12.86	9.38	3.15	6.28	2.44	2.99	1.68	56.11
1903	1.05	2.92	2.22	3.62	2.49	1.68	4.46	4.77	4.98	1.40	0.86	2.18	32.63
1904	2.42	1.75	4.97	3.81	3.19	0.94	2.97	3.19	4.95	1.44	0.10	1.63	31.36
1905	1.18	1.43	2.29	4.13	5.42	5.10	4.18	4.29	3.63	3.57	2.66	1.46	39.34
1906	2.23	2.30	1.61	1.67	2.00	1.85	2.51	4.00	5.68	2.76	2.63	3.13	32.37
1907	5.70	0.32	3.00	2.28	3.32	1.70	5.38	4.66	6.13	0.66	1.86	3.07	38.08
1908	0.77	2.66	4.33	3.32	6.95	1.30	3.79	3.80	1.32	0.82	2.77	1.30	33.13
1909	1.12	3.38	1.56	6.60	3.46	3.80	1.69	2.95	3.09	1.68	4.55	3.50	37.38
1910	2.52	1.21	0.24	3.81	4.90	0.81	1.46	3.17	2.75	1.68	0.62	1.12	24.29
1911	1.58	1.62	1.39	4.45	3.65	4.65	2.46	4.54	12.27	4.18	2.87	1.91	45.57
1912	0.22	1.09	1.41	2.77	3.62	2.46	1.55	1.70	2.34	4.26	1.67	1.01	24.10
1913	1.59	1.46	3.43	2.51	5.21	1.74	3.48	3.41	1.37	2.93	1.18	0.36	28.67
1914	1.96	0.63	1.45	1.55	5.95	3.57	1.26	4.60	1.89	1.54	0.26	1.72	26.30
1915	1.54	1.71	0.33	1.03	4.18	3.16	6.90	4.30	3.18	0.58	1.56	0.99	29.46
1916	5.43	0.55	1.70	1.15	3.84	5.76	0.90	1.22	3.25	5.18	2.08	2.32	33.38

From November, 1893, to April, 1895, inclusive, the values are for Braidwood, 19 miles distant.

## KNOXVILLE, KNOX COUNTY, ILLINOIS

1861	....	2.76	3.22	3.60	2.65	3.71	3.56	1.52	6.00	4.35	0.98	1.70	.....
1862	3.47	0.44	2.38	4.78	3.27	5.71	5.58	5.67	5.58	0.96	2.03	2.88	42.75
1863	2.85	2.66	1.80	....	3.62	....	0.74	1.80	1.85	4.74	0.34	2.41	.....
1864	1.23	0.57	3.14	4.02	1.80	4.08	3.40	2.22	2.16	2.60	2.96	4.55	32.73
1865	0.30	2.69	3.52	4.65	1.58	3.94	6.74	4.70	5.08	2.39	0.00	0.70	36.29
1866	2.75	0.98	1.87	2.52	1.14	0.88	4.64	4.82	8.38	2.00	0.41	1.58	31.97
1867	0.45	2.36	1.92	1.16	6.38	3.13	0.41	3.21	0.94	0.91	1.40	0.96	23.23
1868	0.30	0.50	5.40	5.74	6.74	1.22	1.79	3.51	5.28	....	3.74	1.00	.....
1869	1.62	2.30	1.30	1.01	3.18	8.54	9.00	6.31	1.06	1.54	2.80	1.22	39.88
1870	0.63	0.30	3.86	0.60	1.35	1.27	1.10	3.70	3.96	4.46	0.60	1.08	22.91
1871	2.80	1.50	2.05	2.64	2.72	3.41	3.51	6.46	0.90	3.80	1.94	2.60	34.33
1872	....	....	1.70	2.25	2.34	4.80	....	....	....	....	....	....	.....
1873	....	....	....	....	....	....	....	....	....	....	....	....	.....
1874	....	....	....	....	....	....	....	6.65	8.00	1.27	2.76	1.03	.....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1885	....	....	0.20	3.56	2.57	3.40	3.13	7.40	4.15	3.69	0.91	3.75	.....
1886	3.05	2.00	4.50	2.68	8.15	3.40	1.00	3.37	5.03	3.35	1.51	1.02	39.06
1887	3.20	6.55	1.25	1.55	3.60	3.00	4.60	3.95	....	2.75	2.05	3.60	.....
1888	1.45	2.50	3.75	1.62	7.90	4.10	3.60	5.25	1.65	3.45	4.15	2.85	42.27
1889	1.73	1.30	1.35	4.30	3.90	4.13	2.00	0.50	2.35	1.65	3.20	1.90	28.31
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1895	1.85	0.39	1.45	3.61	3.62	1.40	8.81	2.54	6.10	1.00	3.51	5.13	39.41
1896	1.15	1.40	1.57	3.62	4.19	3.65	7.25	4.91	5.28	2.06	2.30	0.38	37.76
1897	6.32	0.98	5.67	4.18	1.20	2.38	4.45	1.01	2.05	0.20	2.47	1.47	32.38
1898	5.30	1.86	5.90	3.85	7.98	5.02	0.97	10.18	5.69	2.48	2.67	0.83	52.73
1899	0.42	1.74	3.01	1.55	6.87	2.00	2.71	1.14	2.95	2.48	1.42	2.64	28.93
1900	1.95	3.66	3.20	1.22	3.97	0.42	3.21	4.23	3.86	2.94	2.28	0.45	31.39
1901	1.11	1.07	2.55	1.14	1.25	3.17	2.51	0.65	2.40	0.91	1.15	0.89	18.80
1902	0.52	1.42	3.66	2.22	3.70	9.63	8.07	7.90	4.04	3.27	2.00	2.07	48.50
1903	1.10	1.72	2.95	5.62	4.57	2.43	1.53	6.40	2.45	2.20	1.08	0.98	33.03
1904	3.06	0.74	3.58	2.32	3.81	3.50	7.87	3.05	5.54	0.10	0.20	1.77	35.54
1905	1.07	1.13	1.96	5.38	3.38	4.26	4.59	4.37	2.08	2.69	2.30	1.78	34.99
1906	3.80	2.13	3.51	2.52	2.60	2.50	3.08	2.83	4.30	1.46	2.65	1.81	32.69
1907	....	0.07	....	0.29	2.29	....	5.92	5.84	2.08	0.11	1.32	....	.....
1908	0.99	4.39	2.78	2.19	9.55	2.53	4.10	3.81	1.39	1.38	3.24	1.36	37.71
1909	1.59	3.24	1.76	4.47	4.03	2.56	7.41	0.98	3.63	3.52	5.52	4.18	42.89

Values from 1861 to 1874, inclusive, are for Galesburg; those from 1885 to 1889, inclusive, are for Oneida; and those for 1895 to 1908, inclusive, are for Knoxville. Galesburg is 6 miles from Knoxville. Oneida is 12 miles from Knoxville.

## LA GRANGE, COOK COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1892	....	0.83	2.20	2.76	8.00	12.25	....	....	1.70	0.81	2.24	1.93	.....
1893	1.91	1.79	2.15	5.61	2.27	5.30	2.96	0.23	2.84	0.52	2.26	2.00	29.84
1894	1.64	1.72	....	....	3.16	2.09	....	....	8.87	1.04	1.45	0.71	.....
1895	1.64	0.45	0.85	1.17	2.24	2.00	....	5.69	1.10	0.77	5.09	6.04	.....
1896	1.16	2.39	1.04	4.21	4.72	2.63	....	....	5.39	0.85	3.03	0.10	.....
1897	6.09	1.83	4.00	3.50	1.85	3.74	2.97	1.57	0.80	0.33	3.82	1.36	31.86
1898	4.30	2.60	5.87	1.14	3.50	6.92	2.77	4.59	3.97	4.21	2.69	1.56	44.12
1899	0.37	1.91	2.06	0.35	5.98	1.86	8.80	2.18	1.73	2.54	1.53	1.63	30.94
1900	1.30	3.38	1.84	0.95	3.78	3.40	5.64	4.81	1.95	1.12	3.32	0.32	31.81
1901	1.45	2.03	3.78	0.47	0.96	4.38	2.87	2.00	3.56	1.65	1.04	1.33	25.52
1902	0.53	1.34	3.19	1.89	6.16	10.64	7.51	2.08	5.91	2.09	2.68	2.31	46.33
1903	0.86	2.90	2.51	3.51	1.27	2.06	....	....	5.54	1.50	0.37	2.08	.....
1904	1.65	1.56	5.30	2.02	1.57	0.79	3.55	3.06	3.69	1.59	T	0.99	25.77
1905	0.72	1.06	1.58	3.41	5.91	3.33	3.56	2.65	4.25	1.65	2.77	0.46	31.35
1906	1.61	2.50	2.56	1.59	3.42	2.49	2.16	5.53	6.19	2.72	2.69	2.36	35.82
1907	5.17	0.40	2.71	2.45	2.61	3.99	4.54	4.28	5.72	1.05	1.15	1.81	35.88
1908	1.41	3.40	3.20	2.71	6.16	1.30	3.54	7.75	1.40	0.89	2.40	1.34	35.50
1909	1.68	3.73	1.42	8.22	2.54	6.33	1.28	6.45	3.26	1.24	4.05	4.12	44.32
1910	2.35	0.83	0.05	3.47	5.13	1.06	†1.62	†3.12	4.39	1.44	1.73	1.28	26.47
1911	1.23	2.88	1.32	3.40	2.44	2.57	2.39	3.45	3.64	3.70	2.90	2.01	31.93
1912	0.40	1.45	2.02	2.91	5.47	2.01	2.71	2.65	3.68	4.09	1.48	1.02	29.89
1913	1.10	2.13	3.39	2.41	5.28	0.89	*3.48	*3.41	*1.37	2.54	1.71	0.28	27.99
1914	1.94	0.53	2.52	1.33	5.95	3.38	†1.19	†4.18	†1.73	2.91	0.49	2.35	28.50
1915	1.89	2.01	0.45	0.55	5.87	4.24	7.32	3.58	....	0.61	1.68	0.94	.....
1916	5.17	0.71	2.29	1.09	3.38	8.12	0.88	1.28	....	4.04	2.30	2.33	.....

†Estimated from surrounding stations.

\*Values are for Joliet.

## LANARK, CARROLL COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1887	....	....	....	....	1.89	1.89	3.81	3.68	4.76	2.34	1.64	3.63	.....
1888	1.39	1.26	4.04	1.52	6.46	2.72	4.96	2.91	1.24	2.40	3.13	3.02	35.05
1889	1.66	1.17	1.49	3.87	3.55	3.17	6.42	0.38	4.71	1.02	1.10	2.62	31.17
1890	2.76	1.61	2.13	....	3.71	12.32	0.78	2.96	1.36	5.43	1.87	0.81	.....
1891	1.59	1.48	2.86	3.20	3.22	3.18	4.39	2.63	1.84	1.58	3.71	2.06	31.74
1892	2.13	1.83	2.97	6.05	9.29	9.57	....	....	....	....	....	....	.....
1893	....	....	....	....	....	....	....	....	....	....	....	....	.....
1894	....	....	....	....	....	....	....	....	....	....	....	....	.....
1895	*1.82	*0.29	*0.70	*0.18	3.78	1.60	4.28	1.61	1.70	0.86	2.02	1.41	20.25
1896	0.49	1.02	1.21	5.05	7.92	2.92	5.06	3.23	4.78	1.97	0.83	0.95	35.43
1897	2.48	0.89	3.20	2.67	1.24	5.58	1.06	0.59	1.54	0.39	1.79	1.46	22.89
1898	1.85	1.52	2.66	2.76	3.87	2.12	2.00	7.23	3.66	3.45	1.07	0.34	32.53
1899	0.27	0.20	1.31	2.12	7.74	2.72	3.66	1.67	1.33	2.67	1.75	1.73	27.17
1900	1.43	2.35	1.51	2.36	4.23	1.91	6.17	4.46	2.87	2.32	1.88	0.72	32.26
1901	0.90	0.70	2.75	0.66	2.72	1.87	1.15	0.27	2.58	1.39	1.06	1.26	17.31
1902	0.46	1.27	1.44	2.65	7.14	10.51	9.79	2.26	5.63	3.08	4.53	2.78	51.54
1903	1.06	1.90	2.94	4.02	5.05	1.88	9.09	6.26	5.64	2.02	1.06	1.71	42.63
1904	*0.65	*0.60	2.68	3.08	3.37	1.12	2.94	5.03	7.49	1.20	0.17	2.65	30.98
1905	0.57	1.26	3.06	2.41	4.06	3.15	4.01	7.90	2.62	4.29	2.16	0.96	36.45
1906	2.60	1.79	2.44	2.17	4.18	5.24	4.32	6.05	3.70	1.95	3.48	1.71	39.63
1907	2.67	0.22	1.51	2.50	3.23	4.48	3.72	5.13	6.20	1.43	1.41	0.93	33.43
1908	0.62	1.94	3.02	2.91	6.14	5.13	6.67	2.69	0.89	1.16	3.02	0.49	34.68
1909	3.58	1.67	1.14	7.23	2.46	6.40	1.53	1.92	1.81	1.64	3.37	2.57	36.32
1910	1.39	0.40	0.28	3.01	3.31	0.71	1.34	3.26	2.37	0.66	4.71	0.40	17.84
1911	0.46	2.59	0.71	4.48	4.58	3.81	3.42	12.19	6.89	1.45	3.98	1.49	46.05
1912	0.40	0.96	1.13	1.77	3.01	2.47	5.83	6.13	3.62	4.35	1.78	1.58	33.03
1913	0.91	0.68	1.67	1.91	6.94	1.62	2.08	5.56	2.86	3.61	1.32	0.51	29.67
1914	0.87	0.39	3.15	1.55	3.97	5.00	1.47	0.79	8.44	2.53	0.20	1.72	30.08
1915	1.38	2.10	0.57	0.10	7.65	3.70	9.09	3.08	5.30	0.51	3.29	0.41	37.18
1916	3.40	0.49	1.84	....	....	....	....	....	....	....	....	....	.....

\*Values are for Zion, in the same county.



## LASALLE, LASALLE COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1903	....	1.27	2.94	....	....	....	....	4.95	6.27	1.02	0.65	0.33	.....
1904	1.96	0.82	2.67	2.86	1.99	....	....	....	....	....	0.03	1.65	.....
1905	0.90	1.09	1.83	3.71	5.51	4.43	1.49	3.19	3.15	1.86	1.93	1.28	30.37
1906	2.15	2.01	2.08	1.16	1.85	3.00	2.62	7.25	4.89	1.12	1.98	2.14	32.25
1907	4.46	0.09	2.03	2.86	3.39	3.45	5.94	4.29	4.99	0.87	1.55	1.56	34.98
1908	0.96	2.76	3.07	2.89	6.69	2.68	3.72	1.82	1.09	0.41	1.62	0.83	28.54
1909	1.28	3.06	1.40	5.93	3.05	2.33	2.52	4.00	3.15	1.53	3.82	3.64	35.71
1910	1.93	1.17	0.19	3.78	6.02	0.89	0.79	3.74	5.09	1.03	0.77	1.11	26.51
1911	1.78	2.16	1.31	3.37	1.97	3.32	3.16	6.45	7.42	2.40	2.26	2.04	37.64
1912	0.13	0.73	1.47	2.93	3.73	2.77	2.40	4.35	2.54	4.62	1.54	0.98	28.24
1913	1.29	2.50	3.03	1.53	4.45	3.32	1.42	3.71	1.92	*2.70	1.32	1.42	28.61
1914	1.24	0.73	2.22	0.94	3.35	2.58	1.19	2.88	3.85	2.14	0.24	1.38	22.74
1915	1.22	2.18	0.54	1.09	5.80	1.84	8.13	2.86	7.84	0.98	2.07	0.86	35.41
1916	5.00	0.79	3.09	1.34	4.58	8.03	0.20	2.30	2.82	....	1.55	....	.....

\*Interpolated from Ottawa, in the same county.

## MARTINTON, IROQUOIS COUNTY, ILLINOIS

1885	....	....	....	....	....	3.10	3.75	2.11	4.45	6.65	1.36	4.02	.....
1886	2.06	1.78	2.04	2.33	5.38	3.40	3.06	3.75	5.23	0.62	1.49	1.42	32.56
1887	1.21	5.03	1.02	2.17	1.95	2.05	2.12	3.37	2.74	1.65	2.90	4.11	30.32
1888	2.82	1.50	2.53	2.11	4.96	4.43	2.49	0.61	0.50	2.36	3.20	1.92	29.43
1889	1.39	1.70	1.65	1.28	6.40	5.65	6.54	2.01	2.71	2.68	3.15	1.53	36.69
1890	4.79	1.77	3.28	3.86	5.37	5.78	1.57	2.70	2.08	3.73	1.56	....	.....
1891	....	....	....	....	....	....	....	....	....	....	....	....	.....
1892	....	....	2.27	7.33	9.47	3.98	1.35	2.42	2.51	0.52	1.95	1.44	.....
1893	1.85	6.70	3.15	6.95	5.42	1.35	....	....	....	....	....	....	.....
1894	....	T	....	....	....	....	....	....	....	....	0.78	1.73	.....
1895	0.87	T	0.53	3.03	1.35	1.29	5.09	1.93	3.46	1.17	2.80	7.91	29.43
1896	1.30	1.94	0.89	....	3.25	4.42	7.02	3.62	5.50	0.25	1.98	0.13	.....
1897	3.61	1.37	3.96	2.26	1.78	4.44	1.67	1.28	0.29	0.61	5.71	2.20	29.13
1898	3.44	1.90	4.38	1.98	5.66	2.65	1.11	4.03	5.77	4.36	2.81	1.80	39.89
1899	1.37	0.89	2.14	0.20	4.02	2.22	2.55	2.19	2.30	3.17	1.84	3.11	26.00
1900	0.74	4.56	3.52	1.31	4.22	2.33	4.34	5.10	2.09	1.82	5.78	0.52	36.33
1901	1.55	1.30	4.06	1.37	2.19	4.76	1.85	3.15	1.82	2.90	1.10	3.10	29.15
1902	0.83	1.81	4.14	3.36	4.51	12.53	6.29	2.37	6.84	1.72	3.37	2.91	50.68
1903	1.29	2.00	1.28	7.18	4.67	3.33	4.34	3.88	2.40	2.54	0.79	0.29	33.99
1904	2.02	1.60	4.08	3.26	3.92	1.68	2.03	3.24	4.81	1.23	0.09	1.85	29.81
1905	0.81	2.05	1.79	3.96	8.93	4.38	2.68	4.91	2.77	2.10	2.68	1.60	38.66
1906	3.26	1.77	3.54	2.03	4.25	3.17	6.02	7.19	4.59	1.80	3.25	3.40	44.27
1907	4.57	0.20	5.23	2.56	2.86	4.04	5.65	6.62	4.17	0.65	2.70	4.68	43.93
1908	1.75	4.05	2.79	4.30	9.95	1.65	1.24	2.86	2.60	0.67	1.58	2.08	35.52
1909	2.30	4.39	2.00	4.90	2.95	4.27	2.45	7.31	3.82	3.35	5.53	4.10	47.37
1910	2.55	1.07	0.45	2.27	4.47	1.25	4.36	5.80	4.50	2.87	0.26	1.16	31.01
1911	1.43	1.06	1.50	4.12	5.79	1.90	0.80	2.65	9.40	2.99	2.00	1.86	35.50
1912	0.62	0.97	2.03	3.87	6.58	4.98	2.31	4.51	1.92	2.70	2.15	0.56	33.20
1913	3.38	0.96	5.22	3.35	5.79	1.87	2.19	3.49	2.22	4.00	2.40	1.22	36.09
1914	1.89	1.01	1.86	2.33	4.72	1.56	1.47	2.62	3.26	0.94	0.33	1.85	23.89
1915	1.95	1.89	0.69	3.10	4.15	1.59	12.52	3.39	4.71	0.92	1.32	1.45	37.68
1916	5.13	0.26	1.08	1.65	7.10	4.91	0.61	1.47	2.07	....	....	....	.....

Values for 1885 to 1893, inclusive, are from Watseka, 9 miles distant.

Values from November, 1894, to March, 1896, inclusive, are for Gilman, 16 miles distant.

## MINONK, WOODFORD COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1886	1.70	0.46	2.95	3.20	4.22	3.45	0.60	0.65	4.95	1.60	0.70	1.05	25.53
1887	0.85	4.95	0.75	1.50	2.10	0.25	0.92	2.60	....	....	....	....	.....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1895	....	....	....	....	....	....	....	....	....	0.87	4.03	6.33	.....
1896	1.26	1.44	1.08	3.64	5.50	3.87	5.33	2.67	4.53	0.20	2.32	T	31.84
1897	5.14	1.45	3.18	2.93	1.05	2.57	2.93	0.92	1.90	0.13	3.92	1.20	27.32
1898	4.21	1.78	5.00	2.87	6.84	2.92	0.58	4.76	5.47	3.86	2.13	1.04	41.46
1899	0.50	1.79	2.24	1.58	4.59	3.75	2.19	1.74	4.20	3.47	0.95	2.31	29.31
1900	1.30	4.45	3.02	1.16	3.69	1.40	2.21	6.43	2.54	2.24	2.66	0.37	30.87
1901	1.49	1.31	3.60	0.61	2.41	2.50	2.40	0.75	1.92	0.75	0.78	1.87	20.39
1902	0.48	1.41	3.89	2.23	2.43	9.41	7.76	8.56	4.59	1.59	3.15	1.79	47.29
1903	0.71	2.16	2.80	4.65	3.23	4.12	6.24	4.49	7.14	2.23	0.92	1.47	40.16
1904	2.51	1.48	3.95	2.75	3.70	1.61	6.23	2.69	4.14	0.17	T	1.43	30.66
1905	1.16	1.06	1.97	3.88	4.54	3.35	2.07	2.59	2.64	2.10	1.68	1.42	28.46
1906	1.89	1.43	1.95	0.92	1.62	2.46	1.66	2.51	4.37	1.50	2.04	1.99	24.34
1907	3.99	0.06	1.72	2.59	4.14	4.19	5.72	3.91	3.82	0.44	1.89	2.46	34.93
1908	0.80	3.83	2.42	4.06	8.77	1.21	1.88	1.62	0.39	0.69	1.60	0.67	27.94
1909	1.62	3.50	1.68	5.62	2.56	3.31	1.98	3.32	1.98	2.43	3.83	2.90	34.73
1910	1.45	1.08	0.03	3.63	4.52	4.07	1.31	2.46	3.91	0.93	0.33	1.16	24.88
1911	2.06	1.80	2.43	3.39	1.32	3.02	2.87	3.49	10.13	3.75	2.11	2.47	38.84
1912	0.54	1.55	2.05	5.57	5.21	4.03	2.85	1.88	2.85	3.61	2.55	0.78	33.47
1913	2.00	2.67	3.45	3.08	5.29	2.00	1.95	2.21	1.32	2.39	2.12	1.44	29.92
1914	1.94	1.08	1.39	1.57	2.94	4.21	0.53	1.52	2.99	2.74	0.05	1.67	22.63
1915	1.40	1.75	0.87	1.20	4.47	1.32	9.12	5.97	5.24	0.69	1.53	0.89	34.45
1916	....	0.28	2.33	1.37	5.22	7.05	0.18	4.50	2.61	4.21	2.75	1.85	.....

## MONMOUTH, WARREN COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1887	....	....	1.30	....	....	....	5.20	....	3.43	....	1.30	....	.....
1888	3.01	....	....	....	....	....	....	....	....	....	....	....	.....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1893	....	2.24	3.48	....	....	....	....	....	....	....	....	1.57	.....
1894	1.78	1.35	2.22	2.10	2.10	2.04	1.02	2.00	5.61	1.16	1.52	1.49	24.39
1895	1.42	0.18	0.84	2.54	2.04	2.97	5.50	3.04	4.26	0.78	2.06	4.81	30.44
1896	1.10	1.35	0.68	4.50	4.76	3.56	5.79	6.68	6.02	1.76	0.81	0.35	37.36
1897	5.14	0.82	2.63	3.25	0.94	2.00	5.26	0.65	2.78	0.13	1.87	1.69	27.16
1898	3.20	1.38	3.65	2.73	6.60	4.67	1.50	9.23	7.15	2.34	1.53	0.47	44.45
1899	0.37	1.49	3.10	2.84	6.61	1.24	1.49	3.27	2.26	2.38	0.65	1.43	27.13
1900	1.67	2.92	2.10	1.01	2.93	0.82	2.65	4.23	5.31	2.86	2.39	0.25	29.14
1901	1.24	1.19	2.00	1.23	1.28	4.96	5.44	0.37	3.00	1.03	0.87	0.78	23.39
1902	0.30	0.99	3.03	3.13	3.65	13.97	7.51	8.80	3.48	3.39	2.28	2.56	53.09
1903	0.63	1.66	2.11	6.58	3.63	2.27	1.92	6.32	6.57	2.35	0.72	0.66	35.42
1904	2.85	0.80	3.62	2.51	4.61	2.86	8.66	5.63	4.29	0.36	0.22	1.67	38.08
1905	0.83	2.04	1.77	4.98	3.64	3.87	2.89	2.04	1.19	1.56	2.16	1.40	28.37
1906	3.29	2.12	3.77	2.28	3.11	4.14	2.73	1.98	8.98	2.30	2.67	1.76	39.13
1907	4.72	0.27	2.02	3.19	2.79	2.72	7.32	5.27	1.76	0.74	1.46	1.49	33.75
1908	1.27	3.33	3.08	2.41	11.29	5.21	5.12	3.98	1.56	1.40	3.08	0.87	42.60
1909	1.54	3.06	2.02	3.92	3.34	3.99	5.06	0.38	3.68	3.77	5.98	3.88	40.62
1910	1.92	1.51	0.73	2.91	4.66	1.97	2.62	0.37	2.80	0.86	0.48	1.13	21.96
1911	2.53	3.51	2.25	4.12	1.53	2.05	4.12	1.70	20.03	2.38	3.00	1.90	49.12
1912	0.60	1.61	1.80	3.98	2.77	1.80	3.94	1.10	2.70	5.47	1.98	0.77	28.52
1913	1.66	2.00	3.91	2.91	6.07	2.49	0.05	1.31	1.89	3.21	2.06	1.04	28.60
1914	1.18	1.10	1.74	2.20	1.86	1.58	0.87	1.45	6.48	2.40	0.92	2.16	23.94
1915	2.65	2.25	0.89	1.69	5.69	4.00	9.58	1.36	5.81	0.52	3.07	....	.....
1916	5.42	0.34	3.16	2.15	7.01	4.18	2.02	1.62	4.52	3.41	1.54	1.42	36.79



## MORRISON, WHITESIDE COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1895	....	....	....	....	2.36	3.50	8.28	2.75	5.88	....	....	....	....
1896	....	....	1.83	4.91	4.34	3.30	6.55	2.99	5.10	1.00	0.97	0.39	....
1897	2.91	1.73	3.33	2.88	1.95	5.27	3.05	0.89	2.16	0.43	1.40	1.32	27.32
1898	3.01	1.82	4.42	5.11	4.19	2.98	1.68	5.61	2.68	3.38	1.20	0.54	36.62
1899	0.30	1.87	1.94	2.73	7.51	2.68	2.78	3.18	0.96	3.39	1.29	1.95	30.58
1900	1.31	2.56	3.12	3.95	6.33	1.61	5.35	5.03	4.07	2.75	1.31	0.23	37.62
1901	0.82	0.63	2.92	0.49	2.62	3.82	6.42	0.29	2.19	0.83	1.03	1.36	23.42
1902	0.82	1.62	2.46	1.47	6.48	9.60	8.66	5.32	3.99	2.78	2.91	2.45	48.56
1903	1.04	1.47	2.41	4.45	5.49	2.02	7.40	5.78	6.09	3.57	1.05	1.58	42.35
1904	2.53	1.13	3.86	3.18	3.13	1.13	4.04	5.71	3.19	0.60	0.02	2.81	31.33
1905	0.94	2.89	3.13	3.80	6.71	4.03	2.52	3.64	2.81	3.23	1.91	1.48	37.09
1906	2.34	2.24	3.36	3.03	5.27	4.48	4.10	2.91	3.85	1.38	3.17	1.55	37.68
1907	3.98	0.46	1.66	1.74	6.03	5.01	9.19	6.43	5.75	1.44	1.42	1.01	44.12
1908	0.77	3.10	3.47	2.56	6.84	4.33	3.67	3.71	1.01	0.59	2.83	0.50	33.38
1909	2.42	2.43	1.60	6.41	3.58	5.57	3.59	3.14	2.60	2.22	4.50	3.72	41.78
1910	1.82	0.76	0.44	4.09	3.15	0.40	1.08	2.44	3.80	0.64	0.91	0.86	20.39
1911	1.28	3.52	0.82	4.12	2.67	2.19	3.06	6.81	5.57	2.20	5.12	1.90	39.26
1912	0.38	1.05	1.74	2.84	3.35	2.62	4.08	4.37	3.05	4.23	1.25	1.03	29.99
1913	1.00	1.18	2.43	1.70	6.01	4.17	1.59	2.62	2.59	2.76	1.54	0.19	27.78
1914	0.76	0.78	4.60	1.83	5.06	5.41	1.92	0.71	6.10	3.40	0.20	1.83	32.60
1915	1.79	2.59	0.87	0.42	5.13	4.59	7.31	3.81	4.66	0.26	3.12	0.33	34.88
1916	4.95	0.90	1.96	2.12	3.94	5.64	0.22	3.06	3.81	4.43	1.51	2.27	34.81

Values for 1895 are for Tampico, 15 miles distant.

Values from March, 1896, to June, 1901, inclusive, are for Round Grove, 5 miles distant.

## OTTAWA, LASALLE COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1856	1.90	0.43	0.14	1.36	6.20	2.11	2.71	1.54	2.38	2.86	3.64	4.82	30.09
1857	0.46	4.45	3.06	1.41	3.65	3.95	3.97	6.10	0.89	2.68	2.96	1.12	34.70
1858	1.65	3.15	2.98	4.55	8.36	6.57	4.82	2.37	3.55	3.97	2.35	2.55	46.87
1859	1.71	0.86	5.24	4.08	3.12	1.68	0.73	3.44	1.66	2.34	2.09	0.94	27.89
1860	2.66	1.59	0.70	1.49	2.20	2.54	2.89	0.79	1.88	0.40	4.03	5.90	27.07
1861	1.22	1.95	2.54	4.97	3.60	4.64	5.23	2.41	5.17	3.57	1.44	2.15	38.89
1862	5.80	1.29	4.16	4.85	3.61	5.61	8.92	6.82	7.55	2.49	2.48	2.13	55.71
1863	....	3.29	3.26	3.26	3.64	....	....	3.11	2.74	4.23	1.78	1.40	....
1864	2.43	1.64	2.70	3.64	1.79	1.52	2.94	1.85	2.58	1.66	3.29	3.49	29.53
1865	0.45	3.99	3.15	5.48	....	5.17	5.01	5.50	3.89	1.84	0.49	0.59	....
1866	2.85	2.49	1.97	1.62	2.16	1.57	5.73	3.62	4.72	2.16	0.90	2.97	32.76
1867	1.28	4.55	1.42	1.72	4.64	3.73	4.23	2.41	0.11	0.92	....	1.66	....
1868	1.07	1.40	5.28	2.60	7.64	2.21	1.96	3.19	3.48	....	....	....	....
1869	....	1.95	1.38	4.58	7.45	6.27	4.40	4.24	....	1.48	1.88	1.63	....
1870	5.28	0.90	3.68	0.85	1.15	1.39	1.90	2.26	3.63	4.33	1.42	....	....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1886	....	....	....	....	....	....	....	....	....	1.60	0.60	0.43	....
1887	1.82	3.25	0.64	0.39	1.08	1.12	1.17	3.06	2.77	2.80	2.17	3.33	23.60
1888	1.80	1.88	3.70	1.23	5.39	2.01	3.58	1.77	0.60	2.71	3.38	2.22	30.27
1889	1.91	1.16	1.77	2.44	4.36	4.61	5.67	2.00	3.92	1.51	3.12	1.80	34.27
1890	1.94	1.40	3.33	1.87	3.99	6.87	0.34	2.72	2.48	3.89	2.06	0.27	31.16
1891	2.86	2.28	2.56	3.96	1.84	3.99	4.45	5.11	1.27	0.56	4.75	1.74	35.37
1892	1.45	1.52	2.70	3.56	13.25	9.80	4.92	0.81	2.56	0.63	2.48	1.84	45.52
1893	2.20	3.03	3.30	5.23	1.95	2.49	1.02	0.77	2.29	1.10	2.18	2.16	27.72
1894	2.38	1.58	2.57	1.51	4.01	3.03	0.80	1.75	7.18	1.63	2.09	1.19	29.72
1895	1.22	0.70	0.82	2.02	1.06	1.02	4.79	2.26	1.47	1.16	5.27	5.77	27.56
1896	1.37	1.65	1.32	3.38	4.24	2.22	8.63	2.43	9.38	0.17	3.43	0.28	38.50
1897	5.98	1.71	4.47	1.88	0.99	6.90	2.99	0.74	1.89	0.46	4.37	1.74	34.12
1898	5.24	2.38	5.21	3.12	6.72	5.80	1.30	4.31	5.90	4.73	2.88	1.42	49.01
1899	0.63	2.10	3.21	1.50	5.08	1.42	5.70	3.02	2.15	2.53	1.46	2.03	30.83
1900	1.60	4.53	2.91	1.53	5.60	1.96	4.53	7.24	2.26	2.24	3.16	0.31	37.87
1901	1.76	2.10	3.51	0.61	2.15	2.67	5.47	0.81	3.20	0.91	1.49	2.09	26.77
1902	0.63	1.41	4.89	2.55	5.64	10.51	10.49	4.40	6.76	1.87	4.29	2.01	55.45
1903	1.13	2.35	3.10	5.08	4.19	3.78	1.94	4.90	6.03	1.43	0.46	1.91	36.30
1904	2.54	1.80	4.87	3.93	3.00	1.89	5.14	3.58	3.27	0.26	0.08	1.86	32.22
1905	1.30	1.93	2.09	5.15	3.68	3.39	1.68	4.12	2.13	1.87	2.01	1.70	31.05
1906	2.07	2.26	2.02	1.63	2.37	2.64	1.45	4.57	5.09	1.23	2.63	1.22	29.18
1907	5.25	0.15	2.55	2.69	4.84	2.50	6.92	4.49	4.94	1.00	1.96	1.79	39.08
1908	0.86	1.53	3.87	3.48	8.17	1.77	3.05	2.03	0.35	0.65	1.79	0.99	28.54
1909	0.98	3.65	1.64	5.19	2.57	3.69	2.95	3.59	4.08	1.71	2.57	3.02	35.64
1910	2.78	0.98	0.42	3.28	5.28	1.25	0.67	3.91	6.23	1.25	0.74	0.98	27.77
1911	1.80	2.13	1.80	3.91	2.64	1.71	1.60	6.28	6.88	2.61	2.28	2.15	35.79
1912	0.27	1.14	1.17	3.30	6.13	2.09	3.28	5.68	2.86	5.26	2.02	1.18	34.38
1913	1.80	3.00	3.87	2.09	6.71	2.36	2.17	2.98	2.10	2.70	1.80	0.59	32.17
1914	1.77	1.10	2.35	1.28	4.06	2.53	0.66	2.33	2.87	3.17	0.40	1.92	24.44
1915	1.86	2.13	1.01	0.75	5.63	2.10	7.30	2.80	4.88	0.86	1.95	0.82	32.09
1916	*5.00	0.59	1.92	0.86	3.90	7.37	0.08	1.05	1.54	4.75	2.48	1.34	30.88

\*Interpolated from La Salle, in the same county.



## PEORIA, PEORIA COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1855	....	....	....	....	....	....	....	....	....	....	....	3.76	....
1856	0.80	1.03	0.25	1.72	4.03	1.50	2.83	1.39	0.76	1.66	4.00	6.13	26.10
1857	0.37	5.33	3.84	1.39	2.80	2.77	1.40	5.61	2.16	2.01	1.33	1.50	30.51
1858	1.48	1.95	3.28	6.25	10.64	5.95	5.75	3.24	2.96	3.24	4.85	3.67	53.26
1859	1.50	1.42	5.82	2.60	3.17	2.18	0.67	4.14	2.84	2.15	2.40	1.23	30.12
1860	1.86	2.40	1.13	1.64	2.00	4.95	8.87	2.39	2.00	0.70	3.13	3.08	34.15
1861	1.25	2.46	3.96	4.95	2.19	2.31	2.31	2.78	3.72	2.33	1.09	0.94	30.29
1862	4.27	0.70	2.71	5.03	1.46	3.67	7.74	9.04	5.09	1.61	1.81	5.20	48.33
1863	2.83	3.20	2.61	1.52	2.97	0.45	4.82	2.24	2.51	3.92	0.71	4.49	32.27
1864	1.42	0.41	2.20	4.81	1.88	2.55	2.92	1.56	4.81	1.53	3.82	3.06	30.97
1865	0.22	4.01	3.57	4.27	2.34	1.86	5.77	3.61	8.31	1.67	0.31	1.08	37.02
1866	3.21	1.10	2.54	2.65	2.57	2.61	5.17	3.97	6.50	2.87	0.51	2.05	35.75
1867	1.36	2.88	1.74	1.57	4.40	2.92	2.65	2.26	0.60	1.10	1.93	1.21	24.62
1868	0.77	0.75	5.38	3.18	7.85	1.43	1.47	2.74	4.46	1.41	4.50	1.81	35.75
1869	0.99	2.62	1.71	3.59	6.09	8.35	7.35	3.39	3.74	1.53	3.13	2.63	42.12
1870	2.05	0.33	4.37	0.45	1.62	0.75	0.68	3.26	3.56	4.27	1.21	1.02	23.57
1871	2.45	1.62	3.24	2.58	1.93	3.47	3.76	4.95	0.65	3.37	2.09	2.04	32.15
1872	0.20	0.69	2.50	2.95	2.38	9.76	7.80	4.54	4.13	0.80	2.00	1.07	38.32
1873	3.47	1.29	1.30	4.76	4.78	2.96	4.25	1.25	3.65	2.26	1.46	7.15	38.58
1874	3.04	1.45	1.11	2.90	2.51	1.95	1.46	5.60	1.15	1.00	2.20	0.67	25.04
1875	0.32	2.20	2.05	2.00	4.23	3.00	8.28	1.02	9.63	3.46	0.71	2.39	39.29
1876	2.60	2.00	4.70	2.66	3.94	6.17	5.54	3.14	4.51	4.86	2.63	0.28	43.03
1877	0.92	0.06	3.32	2.86	2.57	9.43	3.01	2.04	2.83	5.68	3.65	3.45	39.32
1878	0.50	2.25	1.10	3.75	4.45	3.49	2.58	4.42	0.97	3.96	0.91	2.08	31.46
1879	1.05	0.97	1.80	2.95	0.93	3.23	3.42	1.88	3.72	2.17	4.93	1.92	28.97
1880	3.38	3.95	3.30	5.94	6.73	2.32	3.17	3.38	3.09	1.75	1.92	0.96	39.89
1881	0.52	3.51	3.52	1.62	3.50	7.20	2.43	1.38	4.05	5.56	4.26	3.50	41.05
1882	1.27	3.21	3.12	2.41	6.34	11.18	2.91	1.92	1.53	3.76	2.08	1.76	41.49
1883	1.31	4.14	0.77	6.18	6.54	4.89	3.57	0.57	2.93	3.57	4.19	1.37	39.53
1884	0.70	3.18	2.17	2.62	5.50	3.87	3.67	4.13	5.76	4.80	2.19	3.21	41.80
1885	2.63	0.87	0.24	4.44	1.70	4.07	4.73	2.64	5.28	2.32	1.04	2.44	32.40
1886	2.41	1.86	2.25	2.75	2.90	3.67	0.47	3.57	4.68	1.81	1.34	0.89	28.60
1887	1.10	5.45	0.94	1.53	1.24	1.53	2.85	2.72	2.53	2.14	1.62	3.65	27.30
1888	1.87	1.66	4.03	1.18	6.72	1.84	6.48	2.30	4.79	2.29	2.67	2.39	38.22
1889	1.70	0.84	1.50	2.79	3.92	6.30	7.64	1.23	2.61	2.28	2.91	1.33	35.05
1890	2.80	1.36	2.73	2.33	2.74	2.42	0.72	2.39	2.12	3.45	1.79	0.41	25.26
1891	1.68	1.90	2.68	3.64	1.97	3.31	2.82	5.71	2.00	0.71	4.08	2.39	32.89
1892	1.25	1.84	2.45	4.54	7.70	6.05	3.08	0.73	2.35	1.20	2.72	1.75	35.66
1893	0.87	2.92	3.01	7.86	4.65	1.82	2.48	0.44	3.02	0.70	2.21	1.74	31.72
1894	2.60	1.48	3.06	2.22	3.58	4.18	1.00	2.50	4.42	1.45	2.92	1.58	30.99
1895	1.32	0.37	1.02	2.89	1.84	1.67	8.72	2.27	4.92	0.67	4.17	5.86	35.72
1896	1.30	1.95	1.05	4.47	5.74	2.23	7.02	4.69	4.86	0.23	2.20	0.40	36.14
1897	5.39	1.19	4.70	2.87	1.29	2.11	4.65	1.02	0.93	0.04	3.48	1.16	28.83
1898	4.08	2.59	5.74	3.02	5.54	3.37	0.47	3.26	6.05	3.00	2.03	0.93	40.08
1899	0.72	1.96	2.97	1.36	6.03	2.60	1.69	1.27	5.24	2.78	2.25	2.12	30.99
1900	1.92	5.64	1.42	1.09	5.54	1.44	2.45	5.39	2.94	2.90	1.87	0.39	32.99
1901	1.98	1.24	4.31	0.81	1.50	4.32	3.97	1.29	2.64	0.90	0.80	2.26	26.02
1902	0.67	1.41	2.71	2.29	2.99	9.60	7.30	7.42	6.78	3.78	2.83	1.54	49.32
1903	0.89	1.70	3.66	5.15	4.22	2.39	4.91	7.22	5.78	2.13	0.85	0.95	39.85
1904	1.87	1.29	4.42	3.48	4.06	2.44	5.58	4.13	6.67	0.10	0.12	1.33	35.49
1905	1.15	1.45	2.00	3.99	4.53	5.13	4.24	1.36	1.78	2.77	2.45	1.60	32.45
1906	1.70	1.85	2.55	2.77	2.88	3.24	2.48	1.59	4.92	1.00	2.42	1.65	29.05
1907	5.39	0.14	2.34	2.82	2.08	3.99	4.89	6.60	2.94	0.35	1.68	1.66	34.88
1908	0.59	3.98	2.50	4.08	7.76	4.09	3.94	2.78	0.82	0.71	1.89	0.82	33.96
1909	1.55	3.67	1.81	7.17	3.72	3.56	4.57	0.79	3.68	3.59	5.53	2.50	42.14
1910	1.97	1.10	0.52	3.56	4.49	0.78	3.23	0.68	3.12	1.69	0.79	1.25	23.18
1911	2.37	2.39	2.64	2.69	1.03	6.64	2.58	1.73	12.30	2.65	3.01	2.13	42.16
1912	0.35	1.21	2.03	6.88	4.39	1.86	5.04	1.67	3.54	4.03	1.56	1.13	33.69
1913	2.18	3.00	3.46	3.54	1.85	2.50	0.46	2.87	2.58	3.11	2.77	0.74	29.06
1914	1.93	1.36	1.60	2.10	2.28	2.45	0.82	2.40	5.55	2.15	0.20	1.81	24.65
1915	1.89	2.71	0.67	1.60	11.49	2.08	6.91	4.78	4.88	0.55	2.29	1.66	41.51
1916	5.95	0.29	2.33	1.60	7.51	2.55	1.14	6.03	3.73	2.93	1.88	1.75	37.69

## PONTIAC, LIVINGSTON COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1887	0.92	3.85	1.11	1.20	1.15	0.28	0.13	1.60	1.01	0.93	0.77	3.20	16.15
1888	1.40	1.43	2.38	0.90	5.70	3.85	4.32	0.65	0.47	2.35	1.37	1.20	26.02
1889	1.39	0.97	1.53	1.35	5.50	2.45	4.65	0.11	3.80	1.62	3.10	1.65	28.12
1890	4.18	1.20	3.58	4.15	3.65	5.10	0.75	1.95	0.35	2.61	1.45	0.30	29.27
1891	0.95	2.45	2.88	3.45	0.47	6.07	2.65	3.95	0.20	1.40	4.70	2.40	31.57
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1903	0.80	3.23	2.54	4.94	4.36	1.39	6.35	2.60	3.62	2.76	1.06	1.98	35.63
1904	3.92	1.84	5.73	3.63	2.67	1.95	5.37	2.45	5.79	0.17	0.06	2.14	35.72
1905	1.80	1.89	2.17	3.45	6.33	1.70	1.78	1.82	2.26	2.53	2.26	1.71	29.70
1906	3.07	1.78	3.28	2.18	1.77	2.35	2.39	0.80	3.56	1.61	2.58	2.62	27.99
1907	5.62	0.15	2.74	3.09	3.28	3.00	5.66	4.47	4.59	0.61	2.04	3.05	38.30
1908	1.01	4.52	2.90	4.83	8.72	1.65	2.35	1.25	1.53	0.92	2.61	1.51	33.80
1909	2.58	4.30	1.80	5.96	3.05	2.90	2.29	3.75	2.15	2.33	4.00	3.32	38.43
1910	1.78	0.97	0.20	4.07	5.04	2.14	1.25	4.39	4.10	1.69	0.82	1.73	28.18
1911	2.06	2.13	2.32	3.70	2.26	2.84	1.52	2.25	11.81	2.68	2.95	2.20	38.72
1912	1.00	1.60	2.24	5.50	4.96	2.34	2.95	1.67	3.05	2.26	2.25	0.69	30.51
1913	3.03	1.85	5.13	2.97	7.54	2.30	1.13	3.86	1.81	5.05	1.58	1.24	37.49
1914	1.70	1.16	1.52	2.75	3.05	2.15	0.83	3.02	3.48	1.57	0.18	1.89	23.30
1915	1.64	1.67	1.01	1.60	3.69	2.27	7.81	6.79	7.56	0.49	1.46	1.35	37.34
1916	6.35	0.45	1.72	1.10	4.85	6.55	0.32	3.20	2.34	3.43	1.95	2.50	34.70

ROCK ISLAND ARSENAL, ROCK ISLAND COUNTY, ILLINOIS

[illegible]



## STREATOR, LaSALLE COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1893	....	....	....	6.17	3.21	0.96	....	....	3.00	....	2.80	0.97	....
1894	1.90	0.44	2.95	1.03	3.62	2.53	....	....	....	....	....	2.10	....
1895	1.55	0.30	1.40	0.41	0.80	....	6.00	2.60	1.90	1.00	4.54	5.89	....
1896	1.30	1.15	0.65	2.63	5.98	3.27	5.75	1.52	3.44	0.05	2.07	0.10	27.91
1897	5.65	1.55	4.08	1.88	1.13	6.70	2.71	1.07	1.10	0.23	4.20	1.32	31.62
1898	3.43	1.62	6.93	3.00	6.00	3.24	0.62	2.96	4.20	2.99	2.47	0.77	38.23
1899	1.28	1.82	*2.00	0.45	2.50	1.82	5.22	1.69	2.73	2.47	1.23	1.93	25.14
1900	1.49	3.54	2.85	1.24	2.44	1.63	3.13	7.13	2.56	2.18	2.57	0.34	31.10
1901	1.42	1.40	3.49	0.75	1.24	2.85	3.02	2.56	2.20	0.63	1.38	2.15	23.09
1902	0.79	1.32	4.66	2.17	4.37	10.64	8.59	7.11	5.26	3.24	3.48	1.74	53.37
1903	0.90	2.52	3.79	4.81	2.48	2.07	2.43	4.04	7.60	1.02	0.78	1.78	34.22
1904	2.23	1.55	5.76	3.91	4.46	2.11	4.60	2.39	4.15	0.20	T	1.57	32.93
1905	1.07	1.38	2.20	4.22	4.77	3.01	4.10	2.15	2.39	2.64	1.73	1.41	31.07
1906	2.26	1.99	2.77	1.40	1.79	3.10	1.39	2.25	4.25	1.64	2.75	3.06	28.65
1907	5.64	0.10	3.02	2.92	3.70	3.95	7.61	5.08	5.58	0.51	2.06	1.41	41.58
1908	0.59	3.73	2.53	4.15	7.16	1.69	3.62	0.41	0.89	0.68	2.36	0.92	28.23
1909	1.37	3.45	1.81	6.61	2.76	4.79	2.60	3.31	2.74	2.21	3.73	2.85	38.23
1910	2.25	1.03	0.41	4.20	5.13	2.98	0.81	5.38	4.59	1.43	0.43	1.81	30.45
1911	2.22	1.91	1.77	3.50	2.33	4.24	2.55	4.20	6.77	†3.75	2.86	2.17	38.27
1912	0.44	1.56	1.89	4.62	4.73	1.15	3.08	1.88	3.18	3.61	2.55	0.78	29.47
1913	1.76	2.58	3.64	2.91	5.57	1.87	1.59	3.28	1.21	2.29	2.30	1.89	30.89
1914	1.77	0.91	1.84	1.75	3.34	2.17	0.56	3.05	4.36	2.38	0.28	2.01	24.42
1915	1.51	2.00	0.84	0.99	5.66	1.85	8.60	4.42	6.23	0.99	2.08	1.43	36.60
1916	6.61	0.42	1.84	1.28	5.04	7.01	0.45	3.01	2.77	4.42	2.67	2.68	38.20

\*Estimated. †Interpolated from Minonk.

## SYCAMORE, DE KALB COUNTY, ILLINOIS

1881	....	....	....	....	3.50	11.40	7.05	0.80	5.10	8.20	3.60	3.75	....
1882	1.31	1.90	4.85	6.10	3.80	7.90	4.35	2.34	1.94	4.55	2.25	2.25	43.54
1883	2.15	4.95	0.65	3.41	8.55	5.85	5.50	1.95	2.93	6.48	6.63	1.86	50.91
1884	0.71	2.15	2.02	4.06	3.18	4.63	8.84	3.43	3.46	5.76	2.48	4.14	44.86
1885	2.66	1.55	0.55	4.31	1.65	7.04	4.98	9.90	6.10	4.65	2.06	3.05	48.50
1886	4.10	1.85	3.85	5.14	4.24	2.27	0.67	4.29	3.23	2.26	0.96	1.54	34.40
1887	3.93	4.50	0.89	1.08	0.95	1.12	3.12	3.61	3.27	2.80	1.49	3.02	29.78
1888	1.01	1.16	2.59	2.05	5.50	1.27	3.10	4.03	1.09	2.37	1.80	2.16	28.13
1889	1.13	1.16	1.39	3.47	5.17	1.50	4.48	0.86	1.93	0.85	1.80	1.52	25.26
1890	1.64	1.15	1.57	2.58	3.87	7.98	0.42	2.07	1.22	3.48	1.87	1.50	29.35
1891	1.91	1.60	1.95	4.50	2.79	3.55	2.00	2.22	0.37	0.89	4.21	2.37	28.36
1892	1.73	1.21	2.01	4.81	11.77	11.23	2.56	3.56	1.62	0.95	2.13	2.06	45.64
1893	1.83	2.12	2.22	4.59	3.25	5.04	3.65	0.46	3.83	1.13	2.74	2.19	33.05
1894	2.50	1.35	3.26	2.87	3.90	1.79	0.78	0.95	7.88	1.77	1.96	0.74	29.75
1895	1.35	0.30	1.03	1.24	2.52	2.20	3.10	3.06	0.75	0.55	3.71	3.38	23.19
1896	0.50	2.03	1.44	2.74	3.80	1.59	3.60	0.58	8.39	0.26	1.88	0.55	27.36
1897	4.64	1.31	4.31	3.78	1.10	6.04	3.03	1.06	0.44	0.38	3.38	0.81	30.28
1898	3.28	3.57	5.42	1.65	3.20	3.47	1.22	6.47	3.71	4.81	1.76	0.80	39.36
1899	0.37	1.59	2.14	0.96	3.32	1.19	4.04	1.39	1.73	2.44	1.33	1.41	21.91
1900	1.63	3.00	1.96	1.15	2.83	2.22	5.60	11.17	2.79	2.27	2.23	0.53	37.38
1901	1.27	1.19	3.86	0.44	1.63	1.88	4.51	1.06	2.18	0.71	1.32	1.30	21.35
1902	0.70	2.72	3.27	1.96	7.97	9.00	7.83	2.27	4.29	3.10	2.95	2.02	48.08
1903	1.83	1.87	3.10	4.76	3.16	2.70	7.14	5.14	6.88	2.57	0.97	2.38	42.50
1904	1.31	1.52	4.66	2.91	3.51	2.57	4.04	6.49	5.24	0.84	0.03	2.16	35.28
1905	0.50	1.45	2.98	3.14	6.59	4.30	3.20	6.52	1.06	4.61	2.20	1.66	38.21
1906	2.99	3.03	3.06	1.80	4.40	3.17	1.36	3.34	6.09	2.02	3.40	1.84	36.50
1907	3.88	0.30	1.49	2.66	4.59	4.57	4.99	3.28	7.39	1.26	1.42	1.17	37.00
1908	0.79	2.93	3.31	4.60	7.01	4.12	3.06	3.46	1.00	0.86	2.05	1.50	34.69
1909	1.72	1.97	1.60	10.09	2.97	3.27	0.62	7.08	3.95	1.19	5.42	5.27	45.15
1910	1.25	0.77	0.23	3.78	4.81	0.78	1.50	4.22	1.80	2.04	1.10	0.63	22.91
1911	1.47	1.94	0.74	3.21	2.56	2.56	2.65	4.88	6.16	2.91	3.74	1.78	34.60
1912	0.40	0.28	2.50	2.16	3.75	2.34	4.01	4.26	2.75	5.84	1.12	T	29.41
1913	0.38	*1.51	4.52	3.08	5.15	1.94	4.09	2.54	3.23	3.95	1.23	0.48	32.10
1914	1.55	0.90	3.26	0.96	6.75	6.50	0.43	2.45	4.74	2.94	0.52	2.38	32.41
1915	1.45	1.76	0.46	0.54	7.55	5.34	8.01	1.93	3.74	1.74	1.37	0.22	35.11
1916	2.89	0.58	3.25	1.43	3.67	8.89	0.20	1.52	3.86	4.73	2.04	1.05	34.11

\*Interpolated from Elgin.

## TISKILWA, BUREAU COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1864	....	....	....	....	....	....	....	1.75	3.16	3.16	2.98	3.89	....
1865	0.26	3.40	3.12	6.14	1.57	4.47	6.96	8.79	11.57	2.90	0.28	0.54	50.00
1866	1.92	2.02	2.38	1.90	1.90	2.80	4.19	5.44	6.79	1.66	0.26	3.06	34.32
1867	1.76	1.27	2.06	2.00	6.62	3.30	1.95	2.48	1.36	0.97	2.40	1.50	27.67
1868	0.48	0.97	5.15	....	....	2.41	2.03	2.08	4.61	1.24	3.57	1.21	....
1869	1.95	2.47	1.14	3.40	7.78	9.96	6.86	9.37	0.67	0.81	3.88	3.02	51.31
1870	4.15	0.70	5.50	0.60	1.42	0.70	1.91	....	6.64	3.62	1.84	1.52	....
1871	3.32	2.00	2.72	2.83	2.35	5.90	1.85	....	....	....	3.45	3.47	....
1872	0.18	0.75	2.96	5.91	6.56	6.31	4.05	9.21	6.33	0.92	1.59	1.28	46.05
1873	4.55	1.06	1.39	6.75	7.25	2.65	5.65	1.32	1.83	2.23	1.40	3.87	39.95
1874	3.05	1.29	1.81	3.27	3.48	4.56	1.78	3.56	5.14	3.40	2.94	0.74	35.02
1875	1.10	2.34	2.38	3.40	4.65	6.18	9.60	2.30	8.53	4.15	0.83	2.60	48.06
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1895	....	....	....	....	2.70	0.70	7.89	2.38	4.44	0.78	3.31	3.89	....
1896	1.16	1.59	1.01	4.28	4.71	2.81	5.57	2.50	6.70	0.76	1.78	0.17	33.04
1897	5.81	1.27	4.55	2.77	1.42	3.34	2.38	1.48	2.62	0.36	3.36	1.24	30.60
1898	3.76	2.43	6.17	3.50	7.30	2.85	1.17	6.97	4.58	2.63	2.93	1.09	45.38
1899	0.38	1.81	2.83	1.03	5.25	3.89	3.48	1.65	2.55	3.73	1.15	1.63	29.38
1900	1.88	3.85	3.52	1.72	4.23	1.52	2.40	7.76	4.67	2.89	2.03	0.22	36.69
1901	1.36	1.83	3.53	0.80	2.63	2.15	5.12	2.02	2.10	0.70	1.54	1.41	25.19
1902	0.55	1.46	3.29	2.33	5.05	8.19	10.70	5.00	6.25	2.99	3.75	2.12	51.63
1903	0.99	2.95	2.71	5.07	3.72	2.82	2.24	4.26	7.19	2.43	1.27	1.20	36.85
1904	2.53	1.17	3.78	3.32	3.29	1.99	6.78	5.37	3.40	0.28	0.10	1.90	33.91
1905	0.84	1.35	2.73	4.59	5.10	5.72	1.82	2.54	2.51	2.14	2.03	1.60	32.97
1906	2.39	2.28	3.71	2.42	2.96	3.70	2.14	4.38	6.25	1.60	2.97	2.10	36.90
1907	4.47	0.33	2.21	2.83	5.65	3.34	10.17	5.39	3.69	0.66	1.59	1.36	31.69
1908	1.22	3.65	3.62	3.01	9.98	3.80	1.89	1.71	1.14	0.90	2.62	0.83	34.37
1909	1.52	3.19	1.81	4.75	3.82	3.32	3.02	4.50	3.99	2.56	3.67	4.66	40.81
1910	2.57	1.17	0.31	2.66	7.10	1.52	0.91	1.67	2.51	*1.48	*0.54	*1.25	23.69
1911	*2.10	*1.91	1.04	3.44	1.55	2.22	3.27	4.78	6.27	1.71	2.05	2.10	32.44
1912	0.36	1.15	1.94	3.36	4.20	1.81	1.13	2.29	2.53	6.55	2.39	0.75	28.46
1913	1.46	2.51	3.76	1.67	5.75	5.12	0.34	2.04	1.60	2.72	2.40	0.59	29.96
1914	1.27	1.14	1.90	1.45	3.09	2.77	0.58	1.85	3.63	2.77	0.13	1.46	22.04
1915	1.73	2.63	0.83	0.90	6.91	2.28	5.11	4.37	5.06	0.50	2.63	0.67	33.62
1916	5.40	0.71	3.52	1.73	3.25	7.74	0.76	6.81	2.82	4.68	2.41	1.17	41.00

Values from 1864 to 1875, inclusive, are for Wyandot, 6 miles from Tiskilwa.

\*Values are for Henry.

## WALNUT, BUREAU COUNTY, ILLINOIS

1892	2.30	1.48	3.00	4.06	8.49	7.84	5.41	0.96	3.42	1.06	1.73	1.94	41.69
1893	1.55	1.78	3.13	5.02	1.65	4.54	0.86	0.48	3.38	0.23	2.11	2.05	26.78
1894	2.11	2.10	2.98	1.23	3.57	3.00	0.26	1.35	6.89	1.43	1.52	0.61	27.05
1895	1.92	0.55	0.86	1.02	2.39	0.92	5.41	3.23	2.71	0.64	2.60	3.55	25.80
1896	0.87	1.57	1.51	5.17	4.12	3.81	6.32	2.63	5.94	1.20	2.06	0.17	35.37
1897	5.01	1.45	5.05	3.71	1.25	4.94	1.35	1.33	3.43	0.25	2.27	1.31	31.35
1898	3.96	2.08	5.22	2.78	5.22	3.98	1.20	5.51	4.47	2.63	1.70	0.96	39.71
1899	0.36	1.57	1.99	1.82	6.68	1.69	5.05	2.95	1.91	2.78	0.84	1.57	29.21
1900	1.50	2.78	3.17	1.35	3.88	3.03	6.12	6.60	4.74	3.48	1.64	0.29	38.58
1901	1.03	1.25	2.57	0.51	2.43	4.16	3.53	1.58	2.06	0.82	1.37	1.25	22.56
1902	0.38	1.38	2.09	1.53	6.50	8.89	11.01	4.63	4.99	3.63	1.89	1.81	48.73
1903	1.57	1.88	2.65	4.38	4.59	1.96	5.38	4.58	6.69	2.98	0.53	1.32	38.46
1904	2.22	1.55	2.89	1.69	3.31	1.38	5.34	4.53	3.96	0.37	0.06	2.18	29.48
1905	0.74	1.86	3.63	3.88	5.01	5.20	2.19	4.88	2.77	3.02	1.18	1.42	35.78
1906	2.92	2.87	5.22	2.07	4.17	3.94	1.68	3.07	4.02	1.22	2.79	2.52	36.49
1907	3.97	0.25	2.23	2.57	4.13	3.44	9.53	4.67	4.84	0.51	1.41	0.92	38.47
1908	0.85	3.82	3.34	2.74	9.89	2.90	2.85	4.94	1.26	0.58	2.31	0.66	36.14
1909	1.66	3.91	1.05	5.94	3.14	3.09	1.83	3.09	2.41	2.09	5.24	4.37	37.82
1910	1.86	1.07	0.30	2.42	4.84	0.69	1.34	4.12	4.81	0.91	0.60	1.16	24.12
1911	1.25	2.26	0.78	3.66	2.60	4.56	3.11	5.64	7.80	2.90	3.76	1.95	40.27
1912	0.17	1.72	1.69	3.01	1.99	3.75	2.43	4.63	4.09	5.26	2.18	1.26	32.18
1913	1.30	2.15	2.95	2.06	5.00	3.27	1.27	1.51	2.02	2.88	1.76	0.39	26.56
1914	1.51	1.04	2.75	0.65	5.24	5.57	1.61	0.87	5.30	3.36	0.14	1.88	29.92
1915	1.85	2.75	1.10	0.65	6.29	2.86	5.84	4.89	4.13	0.44	3.18	0.58	34.56
1916	5.25	0.45	2.82	1.75	3.80	5.97	0.65	2.45	2.87	5.11	1.86	1.66	34.64



PRECIPITATION FOR CENTRAL-NORTHERN DISTRICT  
AVERAGE OF ALL STATIONS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1856	1.35	0.73	0.20	1.54	5.12	1.81	2.77	1.47	1.57	2.26	3.82	5.48	28.13
1857	0.42	4.89	3.45	1.40	3.23	3.36	2.69	5.86	1.53	3.03	2.29	1.21	33.33
1858	1.77	2.15	2.88	5.33	8.61	5.86	5.42	3.15	3.84	3.71	3.61	2.88	49.21
1859	1.68	1.17	5.69	3.19	2.99	2.25	1.14	3.37	2.52	2.01	2.52	0.97	29.50
1860	2.26	1.87	0.83	1.80	2.92	3.54	5.95	1.62	2.30	0.55	3.58	3.98	31.20
1861	1.17	2.39	3.25	4.51	2.81	3.55	3.70	2.57	4.96	3.42	1.17	1.55	35.05
1862	4.51	0.81	3.08	4.89	2.78	5.00	7.41	7.18	6.07	1.69	2.10	3.40	48.92
1863	2.84	3.05	2.56	2.39	3.41	0.45	2.78	2.38	2.37	4.30	0.94	2.77	29.24
1864	1.69	0.87	2.68	4.16	1.82	2.72	3.09	1.84	3.00	2.18	3.08	3.58	30.71
1865	0.85	3.41	3.13	5.00	2.01	3.66	5.76	5.57	7.27	2.21	0.31	0.65	39.83
1866	2.63	1.27	2.10	1.95	2.13	2.14	4.58	4.58	6.21	2.07	0.53	2.54	32.73
1867	1.27	2.70	1.70	1.85	5.60	3.00	2.50	2.77	1.43	0.98	2.01	1.21	27.02
1868	1.09	0.86	5.56	4.25	6.60	2.13	1.91	3.09	4.32	1.31	3.51	1.17	35.80
1869	1.44	2.22	1.23	2.82	5.70	7.11	6.55	6.00	1.07	1.17	4.20	2.46	41.97
1870	3.52	1.44	6.17	0.74	1.36	1.04	1.88	3.23	4.36	4.26	1.27	1.13	31.53
1871	3.05	2.02	2.64	2.67	2.60	4.42	2.42	3.96	0.58	3.03	2.78	2.80	32.97
1872	0.32	0.52	2.14	3.61	3.73	5.14	4.14	6.39	5.30	0.78	1.41	0.88	34.36
1873	3.39	0.69	1.04	4.96	5.24	1.86	3.55	1.46	2.17	1.96	1.24	4.53	32.09
1874	3.29	1.17	1.37	2.75	2.84	3.61	1.66	3.65	4.90	1.67	2.42	0.61	29.94
1875	0.50	1.52	1.36	2.29	3.38	4.67	8.11	1.78	5.42	2.51	0.64	2.79	34.97
1876	2.76	2.65	3.74	3.36	4.10	5.18	4.36	2.78	4.23	2.01	2.77	0.44	38.38
1877	1.21	0.06	3.48	3.08	2.46	7.21	3.17	2.24	1.65	5.62	3.90	2.80	36.88
1878	0.58	1.66	2.68	4.50	5.07	3.43	2.82	5.02	1.34	3.89	0.73	1.93	35.65
1879	0.76	1.07	1.82	2.14	2.88	3.66	3.75	2.28	1.83	2.15	4.31	1.64	28.29
1880	3.48	2.89	2.73	4.71	5.62	4.04	3.70	4.75	3.03	1.95	1.38	1.04	39.32
1881	0.96	5.12	3.43	1.56	2.44	7.77	3.64	0.82	4.41	6.76	3.96	2.76	43.63
1882	1.28	2.00	3.34	4.55	5.19	7.80	3.82	3.80	1.35	3.64	1.83	1.99	40.59
1883	1.81	4.71	0.62	4.09	6.57	4.56	4.48	1.14	1.90	5.78	5.04	1.68	42.38
1884	0.96	2.66	2.98	2.63	3.25	3.17	5.43	3.28	3.74	5.19	1.97	3.97	39.20
1885	2.58	1.54	0.35	3.68	2.37	4.28	8.32	7.68	4.45	3.95	1.56	3.09	38.85
1886	3.00	1.73	3.02	3.01	4.58	2.36	0.94	2.89	4.56	1.99	1.17	1.11	30.36
1887	2.37	4.90	1.00	1.14	1.79	1.49	2.57	3.37	3.35	2.62	1.75	3.96	30.25
1888	1.70	1.51	2.98	1.63	6.59	2.56	3.82	2.94	1.39	2.73	2.95	2.28	33.08
1889	1.78	1.22	1.60	2.93	4.77	4.28	6.15	0.97	3.33	1.58	2.58	1.78	32.97
1890	2.90	1.56	2.68	2.54	4.24	5.86	0.97	2.27	1.97	4.08	1.68	0.73	31.48
1891	2.09	1.73	2.50	3.61	2.27	3.98	2.95	4.49	1.06	1.04	4.12	1.92	31.76
1892	1.70	1.38	2.58	4.24	9.45	9.38	3.63	1.66	2.16	0.93	2.17	2.04	42.32
1893	1.62	3.16	2.73	5.35	3.01	3.13	2.04	0.50	2.93	1.08	2.40	1.84	29.79
1894	1.98	1.52	2.77	1.95	3.24	2.76	0.59	1.66	6.22	1.45	1.64	1.08	26.86
1895	1.49	0.44	0.97	1.56	2.36	1.65	5.74	3.18	2.86	0.87	3.60	4.90	29.62
1896	1.05	1.64	1.13	3.72	5.00	2.93	3.03	3.17	5.86	0.85	2.13	0.30	30.81
1897	4.94	1.45	3.96	2.93	1.29	4.30	2.87	1.08	1.52	0.31	3.24	1.40	29.29
1898	3.76	2.16	5.25	2.70	5.48	4.37	1.28	5.52	4.56	3.50	2.15	1.10	41.83
1899	0.53	1.64	2.31	1.29	5.55	2.48	3.99	2.09	2.36	2.79	1.32	1.97	28.32
1900	1.56	3.51	2.62	1.44	4.18	1.85	4.09	5.90	3.17	2.45	2.55	0.37	33.69
1901	1.35	1.39	3.28	0.73	1.82	3.13	3.88	1.32	2.46	1.06	1.15	1.60	23.17
1902	0.56	1.44	3.33	2.26	5.37	10.11	8.49	4.76	5.35	2.71	2.85	2.02	49.25
1903	1.11	2.14	2.72	4.67	3.90	2.56	4.57	5.08	5.82	2.25	0.85	1.40	37.07
1904	2.26	1.24	4.04	2.97	3.21	1.91	5.08	4.33	4.57	0.69	0.09	1.84	32.23
1905	0.92	1.60	2.37	3.93	5.01	4.35	2.82	3.58	2.45	2.64	2.05	1.39	33.11
1906	2.49	2.16	2.72	1.94	3.08	3.26	2.80	3.44	5.01	1.70	2.72	2.13	33.45
1907	4.48	0.25	2.43	2.44	3.80	3.42	6.41	5.29	4.55	0.82	1.65	1.70	37.24
1908	0.99	3.25	3.15	3.33	7.80	2.84	3.33	3.50	1.19	0.86	2.44	0.97	33.65
1909	1.75	3.21	1.61	6.24	3.16	4.07	2.83	3.25	3.06	2.25	4.42	3.58	39.43
1910	2.05	0.97	0.33	3.44	4.89	1.41	1.66	3.18	3.85	1.29	0.70	1.11	24.88
1911	1.62	2.39	1.46	3.62	2.50	3.03	2.83	4.41	8.35	2.80	3.14	2.01	38.16
1912	0.53	1.21	1.81	3.64	4.02	2.43	3.23	3.10	2.90	4.45	1.80	0.91	30.03
1913	1.58	2.05	3.51	2.43	5.42	2.90	1.68	3.05	1.95	3.03	1.73	0.83	30.16
1914	1.59	0.88	2.35	1.51	3.94	3.86	1.06	2.31	4.40	2.50	0.33	1.90	26.63
1915	1.76	2.17	0.76	1.00	6.21	2.95	7.95	3.65	5.22	0.69	2.38	0.97	35.71
1916	5.14	0.52	2.41	1.59	4.62	6.20	0.72	2.45	3.00	4.13	1.95	1.89	34.62

## PRECIPITATION FOR CENTRAL DISTRICT BY STATIONS

## ALEXANDER, MORGAN COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1887	0.89	2.48	1.20	1.50	2.96	....	....	....	....	0.30	1.76	3.03	.....
1888	2.82	1.82	2.24	1.04	5.54	4.21	6.30	1.53	2.05	2.15	2.00	2.64	34.34
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1895	....	....	....	....	....	2.43	6.55	1.99	3.82	0.28	2.78	6.82	.....
1896	1.19	1.69	0.82	2.49	4.27	4.63	7.50	0.89	5.49	1.98	1.09	0.22	32.26
1897	6.05	0.83	4.42	4.35	3.39	4.52	2.41	2.20	0.24	0.33	3.50	2.42	34.66
1898	4.21	2.81	5.25	3.15	5.83	5.14	2.28	3.17	5.19	3.80	2.56	1.19	44.58
1899	0.96	2.19	2.05	1.18	9.15	1.91	1.84	3.92	4.29	3.07	2.31	1.48	34.35
1900	1.10	3.46	1.47	1.13	2.75	3.09	2.74	3.69	5.29	2.86	3.05	0.24	30.87
1901	2.33	1.44	2.75	1.34	0.70	2.23	1.44	2.84	1.54	2.00	0.88	2.15	21.64
1902	0.70	0.97	3.05	3.26	2.19	7.01	3.27	5.38	4.01	2.29	3.08	2.45	37.66
1903	1.07	2.93	2.67	3.67	3.42	5.20	3.54	2.90	3.57	2.12	0.78	1.09	32.96
1904	1.74	1.40	4.51	5.26	3.56	4.90	3.74	3.84	3.86	0.27	0.05	0.68	33.81
1905	2.67	0.88	1.75	1.82	3.51	3.61	4.33	4.58	3.98	3.67	1.43	1.42	33.65
1906	1.72	2.47	2.98	2.22	4.20	2.98	0.89	5.03	3.23	0.95	3.02	2.84	32.53
1907	5.26	0.26	4.23	2.53	2.38	2.94	8.57	7.78	1.09	1.55	1.25	2.58	40.42
1908	1.27	3.07	2.08	4.97	7.78	3.14	2.31	1.21	1.40	0.22	1.81	1.29	30.55
1909	2.10	3.81	1.03	4.19	6.14	2.24	6.11	0.66	3.89	3.57	4.54	1.50	39.78
1910	1.49	0.84	0.04	2.69	5.25	3.13	2.56	3.62	5.78	1.72	1.14	0.80	29.06
1911	1.74	1.26	1.55	4.21	2.25	0.47	1.91	3.58	12.12	2.03	2.47	1.84	35.43
1912	0.68	1.49	4.02	4.77	5.27	4.64	2.00	8.38	1.62	3.53	1.56	0.53	38.49
1913	3.18	1.56	5.46	2.97	1.66	3.49	1.08	1.79	3.04	3.07	3.60	0.67	31.57
1914	1.84	1.59	1.70	2.47	1.27	1.74	1.14	3.58	3.91	3.63	0.62	2.22	25.71
1915	2.13	2.16	0.80	2.09	7.72	6.26	7.57	5.09	5.12	0.97	2.22	2.80	44.93
1916	4.67	1.00	1.92	1.18	5.21	3.95	1.41	4.69	2.74	1.51	2.14	1.01	31.43

Values for 1887 and 1888 are for Jacksonville, 10 miles distant.

## ASTORIA, FULTON COUNTY, ILLINOIS

1898	....	....	....	....	....	....	....	....	6.68	2.22	2.47	0.97	.....
1899	0.89	1.99	2.75	1.14	8.38	2.58	4.25	3.00	4.26	3.43	1.96	2.02	36.65
1900	2.00	6.99	1.17	1.09	2.72	1.30	1.82	3.89	3.53	2.90	1.16	0.34	28.91
1901	2.30	0.97	3.07	1.40	0.58	3.86	2.65	0.70	2.63	0.71	0.82	2.68	22.37
1902	1.70	1.68	4.08	2.52	3.32	8.71	4.83	5.58	3.03	2.77	2.64	2.77	43.63
1903	1.36	3.13	2.81	5.36	4.44	3.50	4.03	4.43	4.60	3.15	1.27	2.30	40.38
1904	4.15	1.07	4.84	4.35	5.00	4.16	5.42	2.77	5.33	0.38	0.14	1.90	39.51
1905	1.61	2.78	1.95	3.53	2.75	2.83	2.51	4.34	3.82	2.93	2.10	1.71	32.86
1906	2.16	1.29	3.90	3.21	2.18	3.98	0.71	3.50	5.60	1.37	2.20	1.76	31.86
1907	6.04	0.36	2.59	3.10	2.75	3.51	7.38	6.33	2.03	0.51	1.78	1.74	38.12
1908	1.03	5.00	1.48	5.09	8.06	3.14	2.97	1.46	1.18	0.65	2.51	1.00	33.57
1909	2.10	3.81	1.98	5.98	5.15	6.51	4.73	2.18	4.03	2.74	4.19	2.46	45.86
1910	1.73	1.16	0.40	2.86	6.33	2.82	2.65	1.16	4.51	1.92	1.67	1.16	28.37
1911	2.62	2.27	3.03	3.75	1.14	4.01	2.90	2.26	14.22	2.66	2.33	2.92	44.11
1912	0.59	1.90	4.74	5.93	4.42	2.78	1.56	3.28	2.96	3.64	1.97	0.97	34.74
1913	2.21	3.19	4.26	3.55	1.63	3.66	0.42	0.88	2.12	2.30	2.75	1.27	28.24
1914	1.39	3.04	2.55	1.39	1.27	2.98	1.14	3.20	7.04	1.81	0.07	2.44	28.32
1915	2.85	2.35	1.00	1.89	7.11	4.80	10.08	3.52	7.00	0.48	2.92	2.14	46.14
1916	6.91	0.46	2.38	1.74	7.92	1.67	0.23	5.05	1.78	1.68	1.78	2.10	33.70

## BLOOMINGTON, McLEAN COUNTY, ILLINOIS

1886	2.00	1.46	1.81	1.87	2.49	3.71	....	1.85	4.35	0.78	....	....	.....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1892	....	2.31	1.48	6.41	8.27	6.86	4.68	1.16	2.70	1.25	2.62	1.21	.....
1893	1.36	3.13	3.11	8.34	5.40	0.80	1.16	0.15	2.70	0.74	1.93	1.47	30.29
1894	2.32	1.93	3.37	2.53	3.21	1.89	1.34	0.91	5.59	†0.50	2.52	1.86	27.97
1895	1.26	0.39	1.68	2.55	1.13	1.75	6.71	5.12	4.28	0.61	3.74	7.62	36.84

†Estimated from surrounding stations.



BLOOMINGTON, MCLEAN COUNTY—*Concluded*

Year	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1896	0.82	2.55	2.11	2.02	6.79	3.90	6.68	4.75	5.40	0.16	2.95	0.53	38.66
1897	5.41	1.77	4.09	3.92	1.90	3.49	3.91	1.50	2.08	0.48	5.00	2.00	35.55
1898	4.00	1.77	5.65	2.66	9.42	4.02	4.40	1.85	6.49	4.31	2.28	1.92	48.77
1899	1.52	2.20	4.72	0.82	4.06	4.05	1.92	2.15	1.98	2.69	1.67	2.15	29.93
1900	1.23	5.94	2.60	1.85	5.40	2.49	3.38	3.38	1.55	2.62	3.96	0.65	35.05
1901	1.70	1.84	4.04	0.94	2.09	4.79	1.96	1.07	1.87	2.14	1.11	3.08	26.63
1902	0.90	1.75	4.45	2.43	2.07	12.45	7.97	5.81	4.91	2.70	2.75	2.24	50.43
1903	1.31	3.32	3.24	5.76	4.01	3.25	4.63	2.04	2.75	1.48	1.47	2.49	35.75
1904	3.71	1.35	5.28	4.45	3.20	1.40	3.89	2.95	5.65	0.52	0.19	1.53	34.12
1905	1.37	1.82	2.18	5.11	5.56	3.44	4.06	2.96	3.59	2.89	2.65	1.89	37.52
1906	2.66	1.57	2.39	2.83	2.88	3.96	1.27	4.30	4.30	1.85	3.80	3.68	35.49
1907	5.18	0.07	4.50	3.54	2.85	5.74	6.25	6.25	2.69	1.33	2.17	3.10	43.67
1908	1.20	3.80	3.12	7.78	10.17	1.53	2.10	1.17	0.45	0.50	2.48	1.47	35.77
1909	1.77	5.09	1.78	5.94	3.79	4.63	3.15	2.51	2.35	2.98	4.28	2.01	40.28
1910	1.84	1.03	0.61	3.84	5.31	1.70	2.91	0.70	5.39	1.23	0.64	1.29	26.49
1911	1.67	1.51	2.34	2.71	1.73	1.66	2.80	2.46	10.25	2.58	3.71	2.66	36.08
1912	0.77	1.60	2.42	6.36	4.29	3.19	5.25	5.01	1.35	3.42	2.32	0.85	36.83
1913	3.38	1.40	5.78	3.38	2.88	4.55	1.27	2.76	2.27	4.24	2.69	0.80	35.40
1914	2.13	1.59	1.20	2.66	4.99	1.70	1.05	3.29	2.36	2.09	0.25	2.26	25.57
1915	2.03	1.99	1.12	1.90	5.51	1.64	7.87	4.69	7.55	0.87	1.24	2.17	38.58
1916	6.19	0.70	2.12	1.65	8.13	4.57	0.50	2.10	2.94	4.23	1.96	2.12	37.21

## CARLINVILLE, MACOUPIN COUNTY, ILLINOIS

1856	1.50	....	....	....	....	6.56	2.64	5.80	8.50	3.51	1.78	0.80	....
1857	1.23	2.40	1.70	1.40	1.40	2.40	1.00	1.50	0.70	0.40	2.30	1.30	17.73
1858	1.80	1.80	1.90	2.10	3.20	3.26	5.35	0.36	1.81	3.80	3.52	2.37	31.27
1859	1.97	3.54	....	....	....	....	....	....	....	....	....	....	....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1883	1.17	7.42	1.47	4.33	3.80	5.00	5.26	1.37	0.10	6.30	4.07	2.46	42.75
1884	2.47	4.11	3.79	2.33	4.27	3.96	2.30	2.56	7.19	2.33	1.86	5.80	42.97
1885	5.19	0.87	0.42	4.27	1.98	8.22	2.29	3.96	5.73	4.89	1.35	3.06	42.23
1886	6.10	1.39	2.86	....	6.30	7.58	0.16	2.94	....	....	....	....	....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1891	0.70	1.93	2.39	2.08	2.56	3.48	1.27	5.34	0.62	0.94	5.25	1.08	27.64
1892	1.52	3.77	2.42	9.34	9.90	5.72	4.13	1.91	2.23	1.78	4.42	1.69	48.83
1893	0.37	5.72	3.68	9.23	4.59	4.10	1.84	0.51	2.57	1.69	1.37	1.45	37.12
1894	3.09	2.77	3.15	3.12	2.33	1.42	1.77	1.20	5.28	1.07	3.46	1.90	30.56
1895	1.08	1.02	1.60	2.08	1.42	3.16	5.58	2.14	3.43	0.42	2.91	6.75	31.59
1896	1.28	2.76	1.51	2.48	8.11	6.60	6.53	4.63	3.87	1.35	2.01	0.43	41.56
1897	3.91	1.62	6.72	5.85	2.66	3.91	3.33	1.65	T	0.21	5.06	2.89	37.81
1898	4.98	1.96	7.49	4.30	7.58	3.66	3.68	2.68	5.39	4.60	2.63	2.16	51.11
1899	1.79	2.30	3.24	1.27	7.01	1.71	2.54	6.48	2.29	3.91	2.30	2.38	37.22
1900	0.61	4.70	1.72	1.36	4.85	4.88	5.99	1.42	5.03	2.42	2.43	0.95	36.36
1901	1.70	1.81	4.15	2.56	0.86	3.65	0.72	1.83	0.83	2.63	1.49	4.54	26.77
1902	1.14	0.86	4.18	2.44	3.37	10.82	1.82	5.43	3.76	3.06	3.23	3.39	43.50
1903	1.57	3.76	2.18	5.62	3.17	3.75	3.89	3.38	3.69	1.50	0.54	1.75	34.80
1904	2.64	1.09	8.60	6.88	2.93	3.86	9.51	3.57	4.11	0.43	0.08	1.02	44.72
1905	2.39	1.17	2.04	3.68	4.26	1.20	7.44	4.65	3.88	5.14	1.68	2.18	39.71
1906	3.12	3.06	4.20	2.60	2.33	2.17	7.73	5.86	4.96	1.97	3.94	2.57	44.51
1907	5.57	0.57	2.67	3.21	4.36	5.01	5.59	3.77	0.63	1.52	1.78	2.45	37.13
1908	1.56	4.81	2.41	5.11	9.08	3.42	2.36	1.35	2.28	0.23	3.37	1.70	37.68
1909	2.58	4.04	1.87	6.02	4.75	4.65	5.41	0.47	4.76	3.15	3.76	1.99	43.45
1910	1.92	2.20	0.15	4.89	6.52	3.73	5.89	1.37	7.48	2.57	0.44	1.66	38.82
1911	1.80	2.14	1.75	4.93	2.49	0.90	2.30	5.76	5.98	3.49	2.18	2.17	35.89
1912	0.92	1.27	5.05	8.60	3.22	1.65	2.84	2.50	1.98	2.66	3.06	0.32	34.07
1913	3.86	1.09	6.06	3.31	1.23	1.01	1.84	1.97	3.80	2.86	4.02	0.85	31.90
1914	2.80	2.74	*0.50	3.47	0.73	1.43	1.49	2.94	2.99	4.40	0.92	1.94	26.35
1915	2.05	1.99	0.58	3.00	8.13	6.71	5.41	11.09	2.75	0.79	2.01	3.52	48.03
1916	6.87	1.02	1.42	1.81	3.89	5.14	1.22	7.36	2.13	2.01	2.19	1.26	36.32

Data for 1856 to 1859, inclusive, are for Brighton, 21 miles distant.

Data for 1883 to 1886, inclusive, are for Bunker Hill, 17 miles distant.

\*Interpolated from Hillsboro.

## CHARLESTON, COLES COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1870	....	....	....	1.92	2.63	2.86	4.40	4.34	0.66	3.46	2.01	1.85	.....
*1880	6.38	6.37	6.00	6.00	7.00	2.75	3.00	3.88	2.50	2.10	2.50	2.70	50.68
1881	*1.45	5.25	*3.90	2.00	*1.38	*5.75	1.12	*0.87	3.95	7.30	8.20	3.50	44.67
1882	2.90	*8.60	5.10	3.81	5.80	7.70	1.82	*5.94	1.60	3.64	2.04	2.80	51.75
1883	1.20	9.10	*1.28	*3.03	*4.14	*3.94	*4.64	*1.78	*0.80	*9.40	*4.73	*2.26	46.30
*1884	0.90	5.44	2.75	4.16	5.00	6.87	3.65	2.20	4.70	2.80	1.83	5.45	45.75
1885	*2.25	2.56	0.25	4.74	3.10	4.98	2.83	6.47	4.49	3.24	2.61	3.34	40.86
1886	2.80	1.04	3.32	2.73	3.56	2.69	3.66	2.90	4.02	0.74	2.86	1.92	32.24
1887	1.02	3.80	3.40	2.60	3.51	0.07	0.56	2.30	3.32	0.97	7.06	4.75	33.36
1888	2.97	2.70	3.12	2.43	4.82	6.77	2.35	3.25	1.42	2.37	4.35	2.43	38.98
1889	1.80	1.63	1.25	0.90	4.19	†7.50	5.65	1.53	†2.90	2.01	†4.60	†1.00	34.96
1890	....	3.41	3.37	2.66	3.40	6.75	6.98	1.87	2.22	2.19	1.93	1.13	.....
1891	0.91	2.82	3.97	2.51	*0.60	*4.25	*1.88	*4.95	1.43	1.47	5.59	1.90	32.28
1892	1.13	5.65	1.29	10.11	10.90	3.81	3.35	2.72	†1.20	*0.85	*4.75	*0.90	46.66
*1893	1.08	2.71	....	....	4.60	2.00	4.35	1.21	3.37	....	2.60	0.59	.....
*1894	1.53	1.46	3.33	1.81	1.02	2.25	3.84	2.23	4.60	0.39	3.24	1.72	27.42
*1895	0.57	0.71	1.04	2.36	0.73	2.86	3.37	†3.26	†2.74	0.60	2.61	3.36	24.21
1896	1.02	1.99	1.85	1.30	6.41	8.12	10.04	3.18	6.53	0.49	3.82	1.08	45.83
1897	4.47	2.28	5.26	6.41	2.93	6.60	1.96	0.39	1.67	0.42	5.42	3.05	40.86
1898	4.44	1.38	8.90	3.59	4.79	2.79	1.93	3.14	4.46	4.14	1.66	1.80	43.02
1899	2.97	2.55	2.75	0.67	6.86	2.56	0.71	1.41	0.89	4.13	2.95	2.90	31.35
1900	0.45	4.52	1.99	1.79	4.00	4.10	*4.76	4.73	3.22	3.63	2.81	1.23	37.23
1901	1.39	2.30	3.82	*2.18	2.37	*5.95	*1.20	*1.07	*1.46	*3.45	1.62	3.17	30.48
1902	0.97	1.96	3.67	2.33	3.46	7.78	3.78	4.24	4.98	1.99	2.52	3.94	41.62
1903	1.68	2.97	1.77	4.41	0.63	5.55	5.32	5.57	1.94	2.68	1.47	2.04	36.03
1904	3.92	1.20	9.42	4.54	4.80	1.96	3.67	4.93	5.80	0.80	0.18	1.84	43.06
1905	1.82	1.49	1.80	3.00	4.29	1.78	7.19	1.53	2.31	5.53	1.85	2.36	34.95
1906	3.31	1.54	4.80	1.32	3.12	2.98	2.92	1.96	4.18	1.41	4.34	3.68	35.56
1907	4.72	0.34	4.42	2.35	2.79	3.75	7.10	3.59	0.72	2.19	2.60	3.42	37.99
1908	1.28	5.10	3.05	3.60	6.96	3.42	2.94	0.85	1.10	0.18	3.51	1.38	33.37
1909	2.21	4.59	2.05	7.83	3.24	4.00	9.05	1.12	3.35	2.80	3.14	2.63	46.01
1910	2.01	2.92	0.40	2.09	3.84	2.43	7.37	3.75	3.81	4.53	3.42	1.14	37.71
1911	3.46	1.62	2.31	5.30	0.52	1.74	1.47	3.19	10.25	3.54	2.84	1.77	38.01
1912	1.04	2.06	4.85	4.29	3.15	3.07	2.25	4.47	3.57	1.94	1.22	1.51	33.42
1913	4.93	1.42	7.21	2.65	0.61	1.42	0.75	†1.63	†3.72	4.63	3.89	0.64	33.55
1914	2.41	2.35	1.17	2.47	0.71	0.82	1.54	6.16	1.05	4.02	1.10	1.60	25.40
1915	2.71	2.39	0.90	1.39	7.88	4.11	7.11	6.77	2.40	1.06	1.72	4.24	42.68
1916	9.37	1.03	1.45	1.18	3.70	4.61	1.38	2.65	3.34	2.10	1.88	4.03	36.72

†Estimated from surrounding stations.

\*Values (including all of years 1880, 1884, 1893, 1894, and 1895) are for Mattoon, 11 miles distant.



## DECATUR, MACON COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1870	2.85	0.95	2.97	1.50	0.80	1.50	1.50	4.00	2.60	3.30	1.68	2.25	25.90
1871	4.60	1.65	3.05	...	2.35	1.90	1.85	1.05	0.25	2.50	1.95	1.15	.....
1872	1.10	1.25	2.32	2.00	2.85	7.50	4.60	1.55	2.61	....	0.90	1.45	.....
1873	3.30	2.65	0.65	6.40	2.95	1.65	3.80	....	2.90	1.95	2.40	2.75	.....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1886	2.50	0.90	2.60	1.60	3.80	6.40	0.30	5.80	5.70	0.20	2.20	0.85	32.85
1887	....	....	....	....	....	....	....	1.95	....	....	....	....	.....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1892	....	....	....	4.20	5.24	....	3.11	1.84	2.95	T	5.46	T	.....
1893	0.95	....	3.82	....	....	....	....	....	....	....	....	1.41	.....
1894	1.83	2.39	2.79	3.06	1.90	2.23	2.33	1.64	2.94	0.42	1.77	2.65	25.95
1895	1.19	0.94	1.18	2.75	1.07	4.40	3.42	1.35	4.47	0.55	3.12	6.47	30.91
1896	0.97	2.91	1.44	1.56	4.75	4.00	7.12	3.00	5.80	0.66	2.81	0.32	35.34
1897	3.83	1.23	5.08	3.87	3.21	4.22	3.03	1.40	0.41	0.28	4.57	2.54	33.67
1898	5.18	2.71	9.85	3.86	5.74	2.39	1.07	2.16	5.47	5.34	2.96	1.68	47.91
1899	1.89	2.43	2.58	0.59	7.01	2.11	1.02	2.56	1.50	4.20	2.01	2.37	30.27
1900	0.59	5.89	1.84	1.46	4.78	4.18	7.40	4.71	4.34	1.33	3.48	0.92	40.92
1901	1.78	1.17	3.23	1.98	2.00	5.33	0.49	0.86	1.27	3.18	1.54	4.43	28.26
1902	1.06	1.42	3.93	2.26	2.80	9.03	2.43	7.01	4.98	2.08	2.45	3.83	43.28
1903	1.60	4.13	2.48	4.84	3.66	2.61	4.57	5.16	2.67	4.07	1.74	2.16	39.69
1904	2.73	1.33	7.29	3.89	2.67	2.18	4.44	5.55	9.48	0.18	0.07	1.84	41.15
1905	2.02	1.72	1.56	3.11	4.54	1.69	3.82	1.44	3.05	4.76	1.70	1.90	31.31
1906	3.04	1.90	4.93	3.02	6.73	1.78	3.45	5.35	3.47	2.46	4.63	3.51	44.27
1907	7.47	0.30	4.75	2.94	2.89	4.29	7.03	7.36	2.08	1.01	2.07	2.89	45.08
1908	1.64	4.29	3.87	4.54	10.23	3.81	2.25	1.25	1.27	0.71	2.09	1.67	37.62
1909	2.43	4.31	1.27	5.58	5.30	3.14	6.18	2.20	2.79	3.59	3.13	2.40	42.32
1910	1.95	1.72	0.58	3.00	7.16	3.27	3.23	3.81	3.94	2.20	2.84	1.98	35.68
1911	2.67	1.50	1.83	5.11	3.60	2.44	1.45	4.08	12.00	2.59	3.31	1.41	41.99
1912	1.23	1.64	4.60	6.80	3.25	3.41	2.67	4.12	1.50	3.22	2.09	0.97	35.50
1913	5.19	1.28	6.87	3.55	1.12	2.90	1.40	2.18	3.74	3.65	3.68	1.62	37.18
1914	2.69	3.03	1.00	3.85	0.53	0.61	2.50	2.86	3.26	1.74	0.64	2.39	25.10
1915	1.91	2.34	1.34	2.77	6.80	3.08	8.30	5.27	3.48	0.72	1.18	3.25	40.44
1916	6.17	1.16	1.59	1.53	5.28	2.72	0.11	2.72	2.89	2.25	2.08	1.53	30.08

## GRAFTON, JERSEY COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1894	....	....	....	2.33	2.03	1.94	1.35	2.15	3.75	1.89	1.90	3.04	.....
1895	0.38	0.38	1.58	1.30	2.59	2.96	7.51	1.92	2.78	0.53	4.61	7.23	33.77
1896	1.45	2.47	1.69	2.80	6.46	7.03	5.09	1.93	3.37	1.16	1.02	0.50	34.97
1897	2.87	2.01	6.97	6.51	1.17	4.99	3.73	1.24	0.11	0.07	3.81	2.72	36.20
1898	5.90	1.30	8.01	3.18	9.03	3.49	5.08	2.03	4.53	4.35	2.31	1.34	50.55
1899	1.12	2.52	3.73	2.91	8.02	2.58	2.27	3.31	1.46	4.75	2.17	2.30	37.14
1900	0.76	4.52	2.05	2.08	6.67	2.54	4.04	2.46	4.64	1.78	2.29	0.96	34.79
1901	1.78	1.95	2.46	1.44	0.38	1.52	2.10	1.08	0.45	1.86	1.68	3.88	20.58
1902	1.03	0.96	3.95	2.07	1.41	8.48	1.30	3.58	3.74	1.91	2.43	4.48	35.94
1903	1.67	3.28	3.44	3.40	2.47	3.40	1.34	4.44	5.48	1.85	0.53	1.64	32.94
1904	3.50	0.43	6.17	5.16	3.33	5.99	5.34	4.58	4.18	1.35	0.32	1.84	42.19
1905	1.40	0.67	2.09	2.94	2.98	0.49	5.09	4.21	4.46	8.17	1.54	2.19	36.23
1906	1.86	3.17	4.08	2.34	4.44	5.10	1.60	4.26	5.32	1.41	3.92	3.40	40.90
1907	5.52	1.42	2.38	3.14	2.62	5.54	6.74	3.83	0.55	2.32	1.64	1.72	37.42
1908	2.04	3.86	2.78	6.75	4.20	2.86	5.46	0.72	1.74	0.54	2.08	1.44	34.47
1909	2.04	3.64	2.52	5.53	5.40	3.90	6.08	1.28	4.17	3.92	6.74	2.06	47.28
1910	3.48	3.88	0.42	2.92	5.26	3.34	6.60	3.08	7.27	4.29	0.68	1.70	42.92
1911	0.70	2.79	2.46	4.77	1.50	2.08	2.17	3.47	5.49	3.10	3.10	2.37	34.00
1912	1.48	3.39	5.74	7.66	4.75	4.18	3.17	3.52	3.10	1.95	2.70	0.42	42.06
1913	5.99	1.01	5.61	3.30	0.56	3.04	1.92	0.24	5.04	5.18	3.52	1.58	36.99
1914	2.43	3.10	0.93	3.53	0.43	0.65	2.92	3.31	2.91	3.78	1.73	.....	.....
1915	....	1.98	0.66	1.67	8.05	6.00	4.28	8.32	3.03	0.69	2.77	3.05	.....
1916	8.31	1.35	2.10	2.12	5.22	2.81	0.08	8.36	4.59	2.46	2.65	1.06	41.11

## GRIGGSVILLE, PIKE COUNTY, ILLINOIS

1882	1.32	1.00	3.50	4.00	6.50	7.37	3.00	2.37	1.62	4.12	2.62	1.62	39.04
1883	1.00	5.50	1.50	4.00	3.37	6.87	2.25	1.75	0.87	6.37	3.25	0.75	37.48
1884	1.25	2.37	....	2.50	4.37	5.25	2.37	3.12	3.24	4.25	1.87	2.50	.....
1885	2.12	0.87	0.62	6.00	2.62	4.50	0.87	2.62	5.75	2.75	1.50	1.75	31.97
1886	2.71	2.50	1.50	2.37	2.60	4.42	0.20	3.08	6.36	0.77	2.10	0.66	29.27
1887	1.40	4.62	1.57	2.36	2.89	1.97	2.72	0.61	4.36	0.52	2.32	4.05	29.39
1888	3.11	2.40	3.84	1.25	7.83	9.77	6.81	2.86	4.00	1.88	4.30	2.47	50.52
1889	2.84	2.40	1.05	2.30	9.38	4.93	2.87	0.76	4.56	4.47	1.12	2.02	38.70
1890	3.31	1.43	2.75	2.85	3.31	5.32	1.47	1.85	2.47	1.48	1.40	0.28	27.92
1891	0.87	3.52	2.25	3.61	2.42	1.76	0.98	1.75	1.53	2.11	4.15	0.87	25.82
1892	2.05	3.73	2.67	6.97	8.93	1.85	5.94	0.85	3.46	1.52	3.20	0.92	42.09
1893	0.42	2.82	6.22	7.69	5.65	3.80	3.38	0.35	1.37	0.33	1.25	1.38	34.66
1894	2.06	2.36	2.15	2.85	2.30	2.97	0.78	1.19	2.78	0.78	1.48	1.32	23.02
1895	1.36	0.22	3.15	2.35	2.46	3.94	6.25	2.63	3.51	0.35	2.95	6.21	35.38
1896	1.50	2.16	0.56	3.05	8.10	3.29	8.10	2.72	9.32	1.60	1.65	0.38	42.43
1897	6.74	1.39	4.20	4.25	2.91	5.45	4.50	2.16	0.46	0.25	3.38	2.34	38.17
1898	4.46	2.19	5.78	4.95	8.30	4.94	3.56	4.49	6.83	3.01	3.66	0.97	53.14
1899	0.42	1.54	3.81	1.80	13.10	1.97	3.16	4.43	3.79	3.33	2.16	1.27	40.78
1900	1.78	6.01	1.54	1.81	4.20	2.40	3.59	1.81	5.50	2.80	1.66	0.45	33.55
1901	2.06	1.51	3.25	1.46	0.46	3.55	2.74	0.22	3.65	1.80	0.77	2.82	24.29
1902	0.56	1.53	2.67	3.99	4.21	7.33	2.89	7.20	3.66	2.58	3.74	2.65	42.71
1903	1.30	2.62	3.20	4.59	3.34	3.14	2.10	4.52	4.89	2.53	0.68	1.05	33.96
1904	3.93	1.60	5.60	5.92	5.86	5.05	5.09	5.41	6.26	0.50	0.15	1.02	46.39
1905	1.60	1.50	1.45	2.85	2.67	1.60	2.95	4.67	5.25	4.27	1.95	1.69	32.45
1906	2.74	2.26	3.05	2.71	2.83	2.74	0.85	4.40	6.56	1.98	2.70	2.65	35.47
1907	5.38	0.49	3.27	3.25	3.35	5.00	5.82	6.97	2.24	1.70	1.80	0.52	39.79
1908	1.05	2.75	1.94	5.66	5.60	3.69	6.53	1.30	0.88	0.10	1.41	1.28	32.19
1909	1.81	2.25	1.53	4.47	7.50	3.27	4.11	0.33	4.64	4.36	3.30	1.21	38.78
1910	1.07	0.76	T	2.72	6.86	2.74	4.45	0.85	4.57	1.65	1.36	0.78	27.81
1911	1.47	1.97	1.97	4.57	1.21	1.19	2.92	3.68	13.77	3.00	2.15	1.47	39.37
1912	0.25	1.18	5.30	4.45	4.17	5.26	2.36	3.43	4.29	5.10	1.45	0.72	37.96
1913	2.26	2.19	4.65	3.56	1.22	4.54	0.64	0.35	3.10	3.87	*1.94	0.79	29.11
1914	1.64	2.24	1.03	2.10	0.37	0.85	1.66	3.38	7.56	3.65	0.36	2.06	26.90
1915	2.09	....	0.56	2.93	5.94	14.77	6.52	6.87	8.89	0.76	3.77	2.10	.....
1916	6.11	0.71	1.56	1.41	7.13	5.52	1.83	7.78	1.42	0.92	2.09	1.46	37.94

\*Interpolated from surrounding stations.



## HAVANA, MASON COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1870	....	....	....	....	....	....	....	....	3.86	3.95	2.50	1.71	.....
1871	4.28	1.60	4.25	2.05	1.00	3.05	5.25	2.15	....	3.05	1.95	2.45	.....
1872	0.50	1.60	2.48	2.03	2.13	9.83	4.78	1.13	4.35	0.84	2.02	1.61	33.30
1873	5.00	1.83	0.99	6.20	5.58	1.24	5.50	0.89	5.69	3.17	1.68	7.72	45.49
1874	2.61	1.87	1.22	2.96	2.42	2.71	2.33	6.48	2.42	1.27	3.20	0.93	30.42
1875	0.37	2.54	4.14	2.44	4.74	4.83	8.57	1.30	5.84	2.80	0.81	2.08	40.46
1876	0.82	1.41	7.03	2.69	4.35	5.60	9.61	3.06	7.00	1.55	2.20	0.20	45.52
1877	0.81	0.10	5.29	3.01	2.65	9.13	2.17	2.92	2.20	6.90	4.70	4.45	44.33
1878	1.28	3.56	2.95	....	....	....	....	....	....	....	....	....	.....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1892	1.65	1.98	1.54	4.84	7.69	3.02	2.29	....	3.01	0.98	3.25	1.42	.....
1893	0.79	3.49	2.94	7.95	5.48	2.00	4.25	0.73	2.84	0.22	0.76	2.06	33.01
1894	2.08	2.32	2.13	1.68	2.23	3.26	1.04	1.84	3.67	1.11	1.98	1.97	25.31
1895	1.36	0.32	1.04	2.68	1.51	1.91	4.89	4.53	4.34	0.41	3.80	6.03	32.82
1896	1.21	2.13	0.98	3.15	4.31	3.25	4.87	3.36	5.30	0.58	1.84	0.33	31.31
1897	6.66	1.32	4.53	3.74	1.08	3.58	5.22	1.22	0.51	0.08	3.41	1.82	33.17
1898	4.64	2.08	4.84	2.90	7.63	4.58	2.49	2.78	6.92	2.55	2.24	1.45	45.10
1899	0.77	2.21	3.39	1.26	7.31	2.24	7.11	3.26	4.18	3.34	2.41	2.73	40.21
1900	1.88	5.54	0.72	1.01	1.33	3.48	4.13	9.02	2.65	2.00	1.57	0.40	33.73
1901	2.54	1.09	7.30	0.89	0.66	5.02	1.85	1.04	1.61	0.66	0.50	0.73	23.89
1902	0.85	1.42	4.31	2.70	2.57	....	....	....	....	....	....	....	.....
1903	....	....	....	....	....	2.55	3.02	5.48	5.66	2.18	0.89	1.35	.....
1904	3.11	1.46	4.32	4.03	4.19	3.40	4.50	2.50	3.02	0.31	0.17	1.26	32.27
1905	1.60	2.20	1.69	3.91	2.69	2.71	2.58	4.42	4.69	2.91	2.54	1.72	33.66
1906	1.69	1.37	2.94	3.26	1.84	2.73	1.78	3.51	5.24	0.85	2.37	1.53	29.11
1907	6.79	0.22	2.54	3.11	2.54	3.89	6.23	6.73	1.53	0.59	1.59	2.41	38.17
1908	0.55	4.35	1.06	4.33	8.73	4.45	2.94	1.67	0.74	0.53	2.01	1.17	32.53
1909	1.55	3.85	1.80	5.39	4.64	5.68	4.84	1.95	5.68	3.13	3.61	2.13	44.25
1910	1.88	1.15	0.26	3.82	7.34	2.24	3.35	0.58	6.60	1.51	1.19	0.98	30.90
1911	2.06	2.31	2.11	3.47	1.51	2.99	1.91	1.86	13.14	2.07	2.01	2.06	37.50
1912	0.58	1.33	2.70	5.09	3.16	2.10	1.80	1.87	5.74	5.57	1.50	0.81	32.25
1913	1.21	1.74	1.53	3.24	1.90	3.15	1.46	1.52	1.59	2.27	2.99	0.70	23.30
1914	0.81	1.33	0.65	1.85	1.48	2.24	3.25	3.27	4.10	1.91	0.04	2.02	22.95
1915	2.23	1.79	0.73	1.68	6.34	3.64	8.43	3.38	6.06	0.53	3.47	1.52	39.80
1916	9.74	0.75	2.61	1.57	7.65	2.02	0.25	6.50	1.63	1.82	1.44	1.60	37.58

## HILLSBORO, MONTGOMERY COUNTY, ILLINOIS

1895	....	....	....	....	1.72	2.47	6.31	3.24	2.83	0.63	3.28	5.44	.....
1896	0.73	2.43	1.23	1.98	6.62	3.14	4.15	2.08	4.80	1.74	2.58	0.77	32.25
1897	4.02	2.02	6.04	4.07	1.59	3.93	5.16	1.16	T	0.25	5.80	2.82	36.86
1898	5.51	3.07	7.78	3.80	7.45	3.39	5.33	2.69	5.56	5.13	2.32	2.00	54.03
1899	1.83	2.51	3.54	1.29	7.28	2.84	2.18	7.49	1.59	3.67	2.45	3.48	40.15
1900	0.52	4.60	1.70	1.31	5.14	6.10	2.96	0.42	3.27	3.02	2.78	0.95	32.76
1901	1.92	1.98	3.05	2.15	1.46	2.54	1.93	4.26	1.03	2.31	1.72	3.66	28.01
1902	0.82	0.89	4.95	2.79	3.31	8.93	1.39	5.71	5.32	2.52	3.34	4.00	43.97
1903	1.19	3.16	2.22	3.57	2.83	4.26	2.56	5.63	1.87	1.78	0.61	3.05	32.73
1904	3.15	0.90	6.53	5.05	4.14	4.54	5.38	4.41	5.44	0.62	0.09	1.01	41.26
1905	2.98	0.86	1.63	3.21	4.67	1.96	5.32	2.53	3.16	9.72	1.65	2.15	39.84
1906	3.56	2.42	4.47	2.08	3.15	4.85	0.50	2.37	5.83	1.65	4.25	2.02	37.15
1907	4.89	0.55	1.90	2.78	7.00	4.88	7.53	5.81	0.96	3.90	1.77	3.36	45.33
1908	2.09	4.76	2.10	5.03	8.28	4.53	2.52	0.78	1.54	0.10	1.85	1.62	35.20
1909	2.30	4.85	2.78	7.81	4.33	3.79	6.25	1.04	6.45	3.79	6.23	2.16	51.78
1910	2.26	2.76	T	5.19	6.03	3.57	4.20	5.19	6.14	5.00	1.05	1.45	42.84
1911	1.93	2.78	1.92	4.95	1.50	1.28	2.78	4.14	7.46	4.08	2.71	1.94	37.47
1912	1.01	1.16	5.24	7.64	3.24	3.03	3.67	2.00	1.51	1.75	1.85	0.50	32.60
1913	6.84	1.40	7.97	2.80	1.27	3.18	1.96	1.87	7.22	3.33	4.59	0.72	43.15
1914	1.64	3.59	0.50	2.97	0.13	1.07	2.93	4.46	2.31	3.25	1.11	1.63	25.59
1915	2.56	2.03	0.38	4.48	9.66	6.89	5.38	13.12	1.55	0.43	1.33	3.16	50.97
1916	7.98	0.93	1.07	1.36	2.60	5.29	0.73	6.58	2.47	2.22	1.93	1.93	35.09

## HOOPESTON, VERMILION COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1902	.....	.....	.....	.....	.....	14.37	4.85	2.30	3.01	1.99	2.88	2.60	.....
1903	1.94	3.03	0.64	6.45	3.77	1.84	3.85	5.78	1.64	1.92	1.80	2.45	35.11
1904	5.20	2.16	7.36	2.61	2.35	1.87	4.36	2.81	3.91	0.38	0.08	1.35	34.44
1905	1.76	2.77	1.24	3.91	4.53	2.15	3.81	3.75	5.09	2.82	2.83	1.47	36.13
1906	2.52	1.52	4.46	1.84	3.58	1.57	2.34	7.87	2.31	1.50	5.55	3.57	38.63
1907	5.89	0.22	4.26	2.90	3.28	5.34	6.48	2.08	5.09	0.94	2.27	3.88	42.63
1908	1.41	6.23	3.64	4.45	8.07	0.86	2.19	1.11	1.79	0.33	2.81	1.61	34.50
1909	2.87	6.88	1.76	6.45	4.24	4.18	6.07	5.28	2.33	2.10	3.47	3.61	49.24
1910	2.99	1.86	0.46	2.46	5.58	1.73	4.66	2.23	5.12	*1.45	0.85	2.07	31.26
1911	3.04	1.97	2.29	4.45	2.26	2.13	3.42	2.92	7.28	4.19	3.54	1.71	39.20
1912	1.71	2.11	3.25	5.77	3.88	3.56	6.62	5.50	2.13	1.80	2.97	0.70	40.00
1913	6.21	1.46	6.96	2.51	1.99	3.28	2.58	5.14	2.44	3.71	3.31	1.24	40.83
1914	2.18	2.61	2.02	2.69	4.29	1.80	1.52	2.27	1.63	3.24	0.62	2.56	27.43
1915	2.37	2.64	1.26	2.29	4.30	2.33	7.88	3.50	6.90	1.01	1.50	1.96	37.94
1916	6.55	0.50	1.86	1.51	5.97	5.29	2.43	2.50	1.83	3.33	2.08	2.88	36.73

\*Interpolated from Rantoul.

## KEOKUK, LEE COUNTY, IOWA

1872	0.07	0.39	2.88	3.86	3.70	5.81	6.77	1.97	2.26	0.42	0.74	0.50	29.37
1873	3.40	0.53	0.51	5.65	3.42	1.21	7.73	0.54	3.37	4.69	1.43	8.56	41.04
1874	3.92	0.88	1.14	2.40	1.65	4.01	4.61	3.87	7.92	1.94	2.17	1.26	35.77
1875	0.61	1.84	1.67	0.89	6.70	8.33	12.70	3.83	4.62	2.71	0.59	3.93	48.42
1876	3.68	1.45	3.45	3.99	5.28	6.73	6.79	4.03	11.08	2.12	2.82	0.23	51.65
1877	0.84	0.15	3.86	4.22	5.55	7.82	7.06	2.52	3.61	7.11	3.05	2.90	48.69
1878	0.17	2.95	3.78	2.31	3.47	3.93	2.37	5.27	1.36	2.31	1.93	1.95	31.80
1879	0.50	0.53	1.71	1.56	2.27	2.63	1.98	4.57	1.12	0.28	3.91	1.45	22.51
1880	3.91	1.94	1.83	4.79	5.92	3.06	2.25	3.81	3.21	2.02	1.13	0.67	34.54
1881	0.50	2.58	2.42	3.12	1.35	8.70	3.08	0.86	4.10	8.01	2.59	1.70	39.01
1882	1.07	1.54	3.30	3.22	7.11	9.45	4.53	3.09	1.52	2.71	2.25	1.75	41.54
1883	1.24	6.13	1.07	2.97	4.87	5.88	3.15	1.32	1.76	6.95	2.09	1.20	38.63
1884	0.85	1.88	3.37	1.31	3.16	4.03	2.30	2.74	4.25	3.35	1.73	3.91	32.88
1885	2.44	1.14	0.17	3.33	2.59	6.97	2.29	5.98	3.77	3.59	0.88	1.96	35.11
1886	2.08	1.40	2.25	1.52	4.49	2.86	0.65	5.90	3.95	2.38	1.15	1.03	29.66
1887	1.48	5.19	0.76	1.84	2.54	1.55	1.57	2.38	3.13	1.98	1.18	2.73	26.33
1888	1.57	2.17	3.45	1.85	5.06	5.42	6.00	2.07	2.13	1.63	2.83	1.61	35.79
1889	1.89	0.90	1.04	3.60	5.72	2.97	6.78	0.95	5.14	2.88	1.80	1.08	34.75
1890	1.81	1.09	2.43	1.79	3.34	3.41	2.49	1.77	4.46	2.44	1.87	0.03	26.93
1891	2.59	1.32	2.27	5.06	2.56	3.66	2.77	6.10	0.49	1.49	3.60	1.33	33.24
1892	1.96	1.61	2.91	6.15	6.34	2.65	6.18	1.07	3.21	0.71	3.16	1.50	37.45
1893	0.92	1.76	2.66	5.41	4.36	2.37	2.60	1.16	3.18	0.33	2.29	0.90	27.94
1894	2.24	1.46	2.52	2.75	3.06	2.85	0.37	0.51	4.86	1.28	2.24	1.06	25.20
1895	1.44	0.19	1.05	3.38	3.15	2.61	5.46	2.68	2.67	0.37	2.58	4.24	29.82
1896	0.85	1.23	0.88	2.35	4.40	2.18	8.01	3.90	9.44	1.71	1.01	0.81	36.77
1897	4.90	0.96	4.16	3.54	1.86	5.43	6.75	0.65	0.64	0.24	2.17	1.84	33.14
1898	3.13	1.16	5.98	4.80	6.70	4.77	3.06	6.92	8.07	3.99	1.52	1.38	51.48
1899	0.49	1.65	2.66	3.28	11.47	2.78	5.39	4.01	4.32	2.06	1.19	1.67	40.97
1900	2.46	3.24	1.43	2.10	4.56	1.06	2.20	4.21	5.02	5.36	1.72	0.25	33.61
1901	1.41	0.75	2.59	2.29	1.95	6.34	2.02	0.15	2.14	0.93	0.80	1.17	22.54
1902	0.44	1.02	2.24	3.13	3.63	7.59	4.87	6.93	1.82	2.38	2.60	2.21	38.86
1903	0.77	1.42	3.03	4.91	3.56	1.40	1.27	4.80	7.16	3.23	0.87	0.86	33.28
1904	2.70	0.70	3.46	5.11	3.94	3.62	4.48	4.63	8.33	0.30	0.21	1.45	38.93
1905	0.60	1.37	1.78	3.32	3.01	6.57	2.89	3.16	4.15	3.41	2.32	1.03	33.61
1906	2.40	2.50	2.82	2.16	1.83	1.48	1.46	2.87	2.94	0.73	1.92	1.90	25.01
1907	5.07	0.10	5.05	2.02	3.44	6.40	6.26	5.50	1.94	0.47	1.17	1.38	38.80
1908	0.51	2.86	1.76	1.82	10.09	4.32	3.70	2.50	2.22	0.87	3.05	0.58	34.28
1909	1.26	2.44	1.84	4.99	3.03	5.11	5.46	0.68	3.46	4.48	3.97	2.56	39.28
1910	1.61	0.99	0.53	2.91	6.87	1.34	2.74	0.92	2.08	0.81	0.23	0.79	21.82
1911	2.66	2.35	1.79	4.13	0.42	0.65	6.48	1.74	7.67	2.19	2.88	1.87	34.83
1912	0.18	0.94	1.38	2.41	1.82	2.23	4.45	2.50	1.73	4.47	1.51	0.50	24.42
1913	1.04	2.39	2.82	2.62	3.87	4.15	0.09	1.63	1.42	1.43	2.22	1.35	25.03
1914	1.31	1.12	1.97	1.94	1.73	3.34	2.09	2.61	6.22	1.65	1.55	1.55	25.94
1915	0.90	1.43	0.90	1.27	5.79	9.99	6.34	1.43	6.16	0.38	2.55	1.49	38.93
1916	5.18	0.59	1.37	2.44	6.63	3.74	0.10	4.71	3.41	2.75	1.75	0.73	33.40



## LA HARPE, HANCOCK COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1856	....	....	0.25	3.13	8.61	1.10	5.99	1.53	1.26	4.52	4.97	6.06	.....
1857	0.39	4.80	2.56	0.89	2.03	3.70	1.45	4.10	2.72	2.32	2.43	1.36	28.75
1858	2.05	1.52	3.17	7.22	9.51	5.86	7.93	2.33	2.46	3.01	3.11	2.88	51.05
1859	3.88	3.63	4.39	3.35	7.81	6.78	1.22	5.43	3.72	1.80	1.79	1.08	44.88
1860	....	....	....	....	....	....	....	....	....	....	....	....	.....
1861	1.68	2.94	3.63	3.96	3.89	4.99	1.37	1.57	4.27	2.31	0.41	1.49	32.51
1862	4.63	0.64	1.80	6.68	1.44	6.35	....	....	7.61	1.46	2.09	6.32	.....
1863	2.80	....	2.21	....	2.81	0.27	2.62	2.46	3.43	3.08	0.61	5.99	.....
1864	1.58	0.58	2.26	6.76	2.16	1.42	5.26	1.29	4.16	2.90	3.88	3.55	35.80
1865	0.15	2.81	4.02	5.77	0.69	6.77	9.58	1.69	5.81	3.34	0.12	1.25	42.00
1866	3.52	1.42	1.77	4.73	2.12	1.74	3.19	3.28	10.30	3.83	0.51	2.88	39.34
1867	1.85	2.53	1.68	2.00	4.98	3.65	3.70	1.86	1.78	0.99	1.33	1.30	27.65
1868	0.92	0.79	5.62	5.36	7.03	2.05	5.42	4.36	4.29	1.75	5.01	2.57	45.17
1869	2.16	2.56	0.95	4.48	5.18	8.13	7.77	6.57	1.82	2.19	3.42	2.07	47.30
1870	2.11	0.12	5.61	0.63	1.73	2.35	2.01	5.41	5.78	5.19	1.39	1.40	53.73
1871	4.49	1.59	3.85	3.05	2.60	4.70	2.81	6.48	1.55	5.62	2.76	1.31	40.81
1872	0.20	0.85	3.06	2.93	3.33	4.96	6.27	2.72	2.56	0.99	1.04	1.41	30.32
1873	3.93	1.24	0.84	7.41	3.74	1.41	6.23	0.46	5.32	3.85	1.57	7.63	43.63
1874	2.88	1.12	1.57	....	2.00	6.61	3.42	4.95	2.18	0.98	2.22	1.07	.....
1875	0.32	2.00	2.83	1.76	6.09	5.59	14.04	1.30	6.64	2.35	0.52	3.89	47.33
1876	1.89	1.57	3.24	4.35	4.47	4.06	4.97	7.98	10.67	2.40	1.78	0.20	47.58
1877	0.82	0.14	4.62	2.58	3.96	6.96	6.24	3.08	3.27	9.27	2.89	4.00	47.83
1878	1.14	3.31	5.16	3.28	4.91	2.89	3.85	6.06	1.13	2.85	1.17	3.82	39.57
1879	0.73	0.79	1.91	1.26	1.63	3.02	3.15	5.20	2.06	0.19	3.97	1.51	25.42
1880	2.51	2.08	2.16	5.74	5.38	2.64	1.35	3.34	2.26	1.38	....	....	.....
1881	....	5.34	....	....	....	....	....	....	....	....	....	....	.....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1895	....	....	....	1.71	1.40	3.13	4.89	3.24	3.25	0.34	3.40	5.65	.....
1896	1.26	2.14	1.18	2.35	4.80	5.16	7.80	7.96	12.28	2.00	2.53	0.99	50.45
1897	10.38	1.83	6.22	5.85	2.41	5.80	3.87	1.86	1.39	0.26	1.26	2.10	43.23
1898	2.94	1.40	5.12	3.91	8.56	2.59	2.35	10.40	6.42	3.15	1.65	0.42	48.91
1899	0.35	1.38	3.14	3.17	12.57	2.60	2.58	4.32	2.82	1.97	1.52	1.17	37.59
1900	2.15	4.26	1.55	1.52	3.50	0.53	3.06	2.85	2.90	4.70	1.38	0.25	28.65
1901	1.17	1.65	2.24	1.30	2.10	5.10	5.15	0.50	2.07	0.85	1.08	0.69	23.90
1902	0.65	1.30	3.40	2.95	3.00	9.70	6.75	9.05	2.50	2.65	2.90	2.04	46.89
1903	2.07	2.13	1.92	5.30	3.00	2.20	1.45	5.00	7.65	4.05	1.02	0.88	36.67
1904	5.48	0.90	5.17	2.85	4.60	4.00	6.45	4.20	8.15	0.45	0.50	1.92	44.67
1905	1.13	1.99	1.25	4.47	4.55	12.60	2.40	5.55	1.65	2.80	2.10	1.14	41.63
1906	3.35	2.50	4.19	1.70	3.70	3.35	4.25	2.15	4.10	1.00	1.15	2.20	33.64
1907	7.62	0.30	6.40	2.60	2.75	4.45	6.70	5.10	1.95	0.30	0.90	1.26	40.33
1908	2.45	3.10	2.27	1.64	11.25	5.60	2.40	1.24	2.03	0.70	2.34	0.60	35.62
1909	1.35	3.32	2.09	3.52	4.87	7.15	6.18	3.31	4.68	3.52	3.61	2.92	46.52
1910	0.62	0.60	0.34	2.37	6.88	1.99	3.61	0.98	2.74	0.75	0.11	0.82	21.21
1911	4.17	1.87	1.90	2.94	1.53	1.68	7.17	1.44	11.84	2.06	1.88	2.07	40.55
1912	0.52	0.90	1.14	2.20	2.71	2.17	4.36	2.55	1.70	3.97	2.06	0.57	24.85
1913	1.14	2.26	2.74	2.82	3.53	3.54	0.23	1.39	1.96	2.07	2.43	0.94	25.05
1914	0.91	0.56	1.92	2.08	2.27	1.59	0.56	4.25	7.25	1.69	0.29	1.97	25.34
1915	2.18	2.35	0.47	0.89	5.34	5.33	9.83	1.50	5.18	0.58	2.72	1.56	37.93
1916	5.20	0.38	2.75	2.59	7.98	4.66	0.10	3.06	3.60	2.58	1.84	0.84	35.58

Values for 1856 to 1881, inclusive, are for Augusta. All other values are for La Harpe. The stations are 24 miles apart.

## LINCOLN, LOGAN COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1888	1.40	1.45	3.41	1.51	8.16	2.46	3.75	2.85	1.60	2.51	2.61	2.37	34.08
1889	1.72	1.88	1.61	0.95	4.19	7.07	4.71	0.30	4.81	1.70	4.10	1.50	34.54
1890	4.35	1.36	1.99	2.71	2.56	3.70	2.50	2.90	0.80	2.90	1.10	0.20	27.07
1891	1.69	4.51	3.20	3.46	1.05	3.36	3.25	6.06	0.15	0.73	4.52	1.43	33.41
1892	1.45	1.86	1.58	....	....	5.93	....	....	....	....	....	....	....
1893	....	....	....	....	....	3.41	2.05	0.35	2.25	1.11	1.64	1.30	....
1894	2.79	2.62	3.23	2.60	2.88	1.91	3.27	1.51	4.06	0.81	1.50	2.43	29.61
1895	1.25	1.14	2.01	1.60	1.32	2.84	4.30	1.47	3.75	0.31	2.67	7.42	30.08
1896	1.32	2.22	1.14	2.31	2.89	4.74	8.14	1.95	5.06	0.43	1.95	0.51	32.66
1897	5.19	1.50	3.82	2.98	1.47	4.17	3.10	1.42	1.21	0.37	3.84	2.35	31.42
1898	4.78	2.20	9.90	2.47	5.04	3.71	0.56	2.77	5.14	4.79	2.26	1.50	45.12
1899	1.21	2.13	2.86	0.72	9.83	1.49	2.30	3.35	2.11	3.04	1.97	1.93	32.94
1900	0.31	5.27	1.22	1.19	2.66	3.96	5.76	6.88	4.24	2.96	4.04	0.68	39.17
1901	1.96	1.36	3.68	1.36	2.24	7.76	1.67	1.17	2.60	1.98	1.07	2.47	29.32
1902	0.67	1.40	4.15	3.34	1.33	8.46	3.34	5.64	4.13	2.24	2.62	2.21	39.53
1903	1.18	3.06	1.42	5.10	4.09	1.98	2.24	3.13	3.07	3.67	1.19	1.70	31.83
1904	2.74	1.00	5.53	5.61	2.81	3.44	2.22	4.32	8.73	0.50	0.02	1.03	37.95
1905	2.06	1.37	1.53	3.99	3.23	2.11	3.64	1.41	3.33	2.80	1.34	1.74	28.55
1906	....	2.10	2.90	2.45	2.30	2.12	0.61	2.72	3.72	1.11	3.58	3.26	....
1907	5.99	0.24	....	2.52	5.54	3.30	3.57	8.50	2.63	1.28	2.01	3.82	....
1908	1.37	4.33	....	4.95	8.77	1.64	1.96	2.77	....	0.49	1.44	1.69	....
1909	2.29	1.84	1.55	5.04	....	....	....	....	....	3.10	4.22	2.86	....
1910	2.71	1.08	0.47	3.56	5.97	1.33	2.99	0.79	4.41	1.40	1.12	1.18	27.01
1911	2.45	1.91	2.32	3.76	1.79	2.43	1.57	2.97	14.31	2.49	1.59	2.31	39.90
1912	0.91	1.60	3.77	5.07	4.28	2.45	2.72	4.33	1.52	3.99	2.34	0.63	33.61
1913	3.63	1.21	6.15	3.24	2.15	2.31	1.01	3.19	2.58	4.21	3.44	0.83	33.95
1914	1.73	2.99	0.80	2.67	6.03	2.32	1.80	2.49	1.98	1.78	0.22	2.38	27.69
1915	1.97	2.34	0.98	2.10	7.32	2.34	8.74	3.83	7.10	1.41	1.11	2.70	41.94
1916	5.57	0.75	1.35	1.51	6.23	2.91	1.39	2.51	2.51	3.32	2.41	1.19	31.65

Values for 1888 to 1892, inclusive, are for Beason, 8 miles from Lincoln.

Values for 1893 to 1905, inclusive, are for Mt. Pulaski, 10 miles from Lincoln.

Values for 1906 to 1908, inclusive, are for Lincoln.

## MANCHESTER, SCOTT COUNTY, ILLINOIS

1855	13.53	1.56	2.91	3.97	6.43	2.00	3.52	2.06	2.76	2.55	2.82	3.92	48.03
1856	1.10	4.69	1.55	1.23	4.32	1.94	2.11	2.11	1.11	2.46	3.43	4.98	31.03
1857	0.85	6.91	2.62	0.77	2.73	3.84	2.28	4.52	2.39	1.67	3.83	1.35	33.76
1858	2.35	1.67	2.05	3.65	9.20	7.60	6.52	3.18	4.59	4.29	2.86	2.45	50.41
1859	2.06	2.48	4.15	3.62	10.76	5.50	2.70	2.81	2.84	1.22	2.92	1.30	42.36
1860	....	....	....	....	....	....	....	....	....	....	....	....	....
1861	1.33	2.29	6.19	2.18	3.37	4.52	1.59	1.52	2.83	2.27	0.94	1.00	30.03
1862	5.15	0.72	2.66	7.05	2.56	2.32	5.34	1.70	4.69	1.77	2.30	3.54	39.80
1863	2.89	4.01	3.77	....	1.80	0.89	3.73	1.97	2.79	3.93	1.77	3.36	....
1864	3.12	0.87	2.05	4.34	2.01	1.12	2.02	1.87	2.42	1.95	3.67	1.94	27.38
1865	0.34	5.23	4.58	....	....	....	....	....	....	....	....	1.63	....
1866	3.74	4.03	3.11	4.16	4.95	1.22	4.01	2.89	7.08	5.98	0.50	2.03	43.70
1867	1.60	6.34	1.95	0.47	5.45	3.36	2.83	2.50	0.50	1.42	1.60	1.01	29.03
1868	1.19	0.19	6.81	5.60	5.59	3.22	1.70	3.02	3.89	1.43	3.12	2.25	38.01
1869	3.67	1.97	2.43	6.25	4.38	4.82	6.98	1.86	0.94	1.67	2.89	2.87	40.73
1870	1.16	0.35	4.61	1.95	1.59	2.60	4.55	5.22	2.61	2.43	1.65	2.30	31.02
1871	3.50	1.55	4.40	0.95	2.48	1.95	1.40	0.80	0.08	3.10	3.05	2.70	25.96
1872	0.68	2.95	3.60	2.30	1.93	9.93	6.00	3.64	2.83	0.00	1.07	1.55	36.48
1873	5.01	2.50	1.80	5.25	7.26	3.05	2.85	1.88	2.89	2.83	3.15	....	....
1874	2.36	3.19	2.75	3.30	2.75	1.90	3.00	5.60	3.15	....	....	....	....



## MARTINSVILLE, CLARKE COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1887	1.85	5.20	4.45	3.16	5.65	1.39	2.54	3.59	2.35	1.02	5.25	3.00	39.45
1888	....	1.25	2.22	2.75	....	5.26	....	6.71	1.36	1.13	7.30	....	.....
1889	1.01	1.08	0.99	0.27	4.20	7.65	3.00	1.30	5.00	3.34	4.67	0.91	33.42
1890	6.19	5.98	3.34	3.46	3.57	3.68	3.00	4.24	4.60	1.45	2.25	1.34	43.10
1891	2.23	4.67	3.93	1.35	0.72	1.55	0.79	6.55	1.12	1.09	3.61	0.99	28.60
1892	1.60	1.80	....	7.84	6.83	2.65	2.62	3.27	0.77	0.83	3.20	1.12	.....
1893	1.25	4.42	3.99	9.16	4.76	3.15	0.85	0.54	4.18	1.30	3.14	2.11	38.85
1894	2.43	2.83	2.20	3.72	4.37	1.10	3.44	3.45	1.70	1.20	0.98	3.49	30.91
1895	2.56	0.95	1.20	3.43	1.10	1.54	4.71	3.83	2.48	0.95	4.75	4.30	31.80
1896	0.85	1.80	1.90	1.92	3.37	3.23	10.57	2.83	4.30	0.95	3.27	1.41	36.40
1897	4.15	2.50	7.27	5.72	3.47	6.77	2.30	0.25	0.47	0.69	6.01	2.83	42.43
1898	3.86	1.26	9.64	2.48	2.79	4.20	1.15	3.44	4.90	4.35	2.29	0.85	41.21
1899	1.80	1.38	4.05	1.20	5.20	2.25	4.51	2.70	0.69	2.79	1.79	2.55	30.91
1900	0.23	*2.66	*1.56	*0.75	*4.58	*5.07	*5.53	*3.37	*4.23	*2.15	*2.96	*0.72	33.81
1901	*0.57	*0.80	*1.28	....	....	†6.41	†0.43	†1.56	†0.42	†2.40	†1.10	†3.93	.....
1902	....	....	†1.97	2.49	2.87	6.48	4.28	4.57	3.78	1.39	....	....	.....
1903	....	....	....	3.81	0.85	2.54	3.06	4.50	2.93	2.28	1.55	....	.....
1904	3.57	0.55	7.97	0.95	3.55	4.61	3.20	2.25	5.01	0.60	0.25	....	.....
1905	1.81	....	1.52	4.01	5.41	1.55	5.64	....	2.00	4.99	2.70	1.75	.....
1906	3.85	1.55	3.55	2.40	1.65	5.07	2.74	5.43	3.65	0.80	4.65	4.70	40.04
1907	7.57	0.09	1.90	2.45	5.08	4.86	4.98	3.85	0.40	2.65	3.40	2.20	39.43
1908	0.20	3.25	3.90	3.60	11.35	3.17	2.67	1.14	1.87	0.21	3.72	1.23	36.31
1909	2.76	3.10	1.65	6.47	6.99	6.61	9.43	1.03	2.88	3.19	4.65	3.03	51.79
1910	1.33	2.20	0.40	2.42	4.63	2.15	7.74	2.89	2.30	6.10	3.10	1.15	36.41

\*At Weir, 7 miles distant. †At Melrose, 10 miles distant.

## MORRISONVILLE, CHRISTIAN COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1895	....	....	....	....	....	....	....	1.50	3.25	0.25	3.28	4.68	.....
1896	0.43	1.41	1.25	1.98	5.04	3.65	5.98	3.07	4.44	1.19	2.59	0.44	31.47
1897	3.35	1.20	6.02	5.27	4.09	4.99	3.60	1.36	0.29	0.12	5.29	2.78	38.36
1898	5.02	2.74	6.72	2.92	9.14	2.74	2.74	3.38	4.60	5.11	3.09	2.02	50.22
1899	1.94	2.42	2.96	2.25	5.66	1.84	0.72	3.84	0.98	3.75	2.11	2.23	30.70
1900	0.43	6.39	1.59	1.16	2.95	....	4.35	1.95	4.22	3.11	2.21	1.06	.....
1901	1.52	1.66	2.26	2.57	1.98	5.53	0.71	1.13	1.50	3.27	1.78	3.97	27.88
1902	1.00	0.93	4.20	2.81	1.02	10.61	1.30	4.43	2.89	2.45	2.93	3.02	37.59
1903	1.47	3.25	2.35	2.72	1.70	3.15	4.59	4.36	3.25	1.73	0.55	1.82	30.94
1904	2.33	1.14	8.67	5.10	2.89	4.05	6.78	3.19	4.62	0.74	0.07	1.20	40.78
1905	2.26	0.99	1.81	3.87	3.17	1.91	6.10	1.78	2.56	5.53	1.74	2.31	34.03
1906	3.44	2.60	3.65	2.41	2.77	1.45	1.87	3.34	2.90	1.17	3.92	2.47	31.99
1907	5.68	0.19	2.03	2.60	3.28	4.37	6.88	5.12	1.02	1.62	2.08	2.63	37.50
1908	1.33	3.48	2.14	5.57	7.49	2.15	2.21	2.71	1.49	0.11	2.91	1.48	33.07
1909	1.66	3.79	1.55	5.88	5.52	2.48	6.77	0.40	3.39	3.37	2.74	1.47	39.02
1910	1.77	1.42	0.04	3.43	8.65	3.77	5.05	2.19	4.78	2.44	1.66	1.49	36.69
1911	2.49	1.54	1.57	5.79	0.67	3.18	1.59	5.77	8.99	2.32	2.74	1.89	38.54
1912	0.74	0.97	4.62	5.70	3.64	1.78	2.00	2.56	1.18	1.88	1.73	0.51	27.31
1913	4.84	1.34	6.07	3.55	1.02	1.97	3.60	1.38	3.66	4.00	4.21	0.62	36.26
1914	2.05	2.25	0.62	2.44	0.31	1.37	1.85	2.81	2.83	1.84	1.11	1.62	21.10
1915	1.83	2.16	0.70	1.33	8.76	7.48	4.14	10.09	2.05	0.81	1.18	3.84	44.37
1916	7.42	1.15	1.26	....	3.38	7.86	1.24	2.45	2.36	2.05	1.95	1.48	.....

## PANA, CHRISTIAN COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1882	....	....	....	....	....	....	....	3.68	0.15	2.00	2.75	1.50	.....
1883	1.28	4.50	1.00	2.00	4.31	3.15	5.75	1.50	0.75	8.00	3.72	0.82	36.78
1884	1.06	4.00	1.50	2.58	2.25	3.49	4.00	1.25	7.33	2.50	2.00	4.88	36.84
1885	2.60	0.88	0.18	5.11	5.41	10.50	6.61	3.59	7.00	5.33	1.33	1.65	50.19
1886	1.68	2.35	2.28	3.07	5.50	5.58	1.50	7.16	8.74	0.16	3.39	1.67	43.08
1887	0.65	6.08	3.41	5.68	6.50	1.66	3.05	5.35	5.08	1.33	7.58	6.41	52.78
1888	3.08	3.74	6.08	3.50	6.08	8.74	5.73	6.66	1.66	5.83	6.25	5.58	62.93
1889	2.73	2.05	3.25	1.25	6.83	4.68	2.24	0.08	4.57	2.75	8.16	4.33	42.92
1890	11.65	2.91	6.08	3.04	3.57	5.25	3.33	3.66	4.66	1.16	3.50	1.12	49.03

PANA, CHRISTIAN COUNTY—*Concluded*

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1891	0.56	2.64	4.32	4.16	0.66	6.25	†2.10	6.50	1.00	2.26	10.09	1.79	42.33
1892	2.11	5.61	3.32	11.99	8.57	2.76	6.49	6.07	3.25	1.57	7.25	4.33	63.32
1893	0.48	4.60	3.77	....	1.60	2.99	2.49	0.30	2.74	0.28	....	....	....
1894	....	....	....	....	....	....	....	....	....	....	....	....	....
1895	....	....	....	....	....	....	....	1.50	3.25	0.25	3.28	4.68	....
1896	0.43	1.41	1.25	1.98	5.04	3.65	5.98	3.07	4.44	1.19	2.59	0.44	31.47
1897	3.35	1.20	6.02	5.27	4.09	4.99	3.60	1.36	0.29	0.12	5.29	2.78	38.36
1898	5.02	2.74	6.72	2.92	6.49	2.31	2.34	3.17	3.90	4.85	2.48	1.33	44.27
1899	2.00	1.91	3.44	1.38	6.84	4.01	1.44	2.44	1.35	3.97	1.72	3.00	33.50
1900	0.51	5.31	1.66	1.32	2.30	6.17	5.49	1.98	3.36	2.00	3.63	1.21	34.94
1901	1.64	1.92	3.71	2.19	3.61	3.94	1.08	2.66	1.73	2.64	1.70	3.16	29.98
1902	1.47	0.96	3.83	2.94	1.71	10.43	1.48	5.51	4.01	2.32	3.16	3.68	41.50
1903	1.43	4.15	2.84	3.66	1.95	3.25	3.53	4.83	2.41	2.24	0.42	1.99	32.70
1904	2.85	1.19	7.86	4.48	2.00	3.50	6.39	4.20	4.26	0.54	0.10	1.34	38.71
1905	2.16	1.17	1.49	2.31	3.65	2.29	6.88	1.66	2.32	5.45	1.95	2.27	33.60
1906	2.78	2.33	4.75	3.94	2.46	3.87	0.89	3.18	7.18	1.03	4.86	2.99	40.26
1907	6.18	0.66	2.61	3.02	3.78	4.85	5.93	5.91	1.01	1.95	1.95	3.97	41.82
1908	1.97	5.87	2.37	5.42	10.21	2.38	2.48	1.60	1.05	0.13	3.09	1.55	38.12
1909	2.72	5.05	1.68	6.25	3.96	3.71	8.82	1.74	3.73	3.20	4.48	2.53	47.87
1910	1.90	2.33	0.40	3.49	6.06	2.52	4.30	6.71	5.95	2.11	1.96	1.05	38.78
1911	2.93	2.87	1.91	5.14	1.12	4.63	1.55	4.65	10.87	2.61	2.59	2.03	42.90
1912	1.24	1.87	4.78	5.10	3.65	3.14	3.69	3.39	0.80	2.84	1.85	0.99	33.34
1913	†5.45	1.46	6.46	†3.15	0.79	1.94	1.48	†2.06	†4.55	4.19	4.40	0.42	36.35
1914	2.15	2.25	0.63	2.14	0.70	1.21	2.34	2.37	3.73	2.46	1.16	2.02	23.16
1915	2.33	2.53	0.77	3.01	8.20	6.80	4.58	11.23	2.12	0.66	1.15	3.90	47.28
1916	8.36	1.12	1.22	1.44	3.14	6.47	1.58	1.62	2.13	2.66	2.13	2.59	34.46

From August, 1895, to April, 1898, values are for Morrisonville, 19 miles distant.

†Interpolated from surrounding stations.

\*Interpolated from Morrisonville.

## PARIS, EDGAR COUNTY, ILLINOIS

1887	1.40	4.19	2.40	2.78	5.03	0.34	0.81	3.40	3.74	0.72	6.47	4.39	35.87
1888	2.75	2.10	3.52	2.52	4.35	4.62	2.94	4.09	2.44	2.66	4.78	2.32	39.09
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1892	....	1.31	0.09	7.50	10.70	4.50	3.50	....	....	....	....	....	....
1893	....	....	....	6.26	4.70	4.24	1.19	0.38	3.24	1.41	3.10	1.69	....
1894	2.95	2.64	3.80	2.17	3.31	1.78	1.74	2.00	3.78	0.69	3.45	1.51	29.82
1895	1.71	1.12	0.91	3.87	0.88	2.21	2.95	1.65	2.46	0.28	4.84	3.05	25.93
1896	....	....	....	1.28	5.92	5.45	8.39	5.41	5.94	....	1.96	....	....
1897	....	....	2.99	4.63	2.04	5.60	2.70	0.53	0.38	0.25	6.41	2.93	....
1898	4.29	1.69	8.34	2.41	3.05	3.84	1.67	3.31	4.71	3.73	2.30	1.37	40.71
1899	2.97	2.22	2.73	0.90	4.90	2.04	3.99	3.09	0.92	†3.92	3.59	2.83	34.10
1900	0.80	†5.31	1.63	2.05	2.17	6.37	4.35	4.75	3.13	4.04	3.64	0.98	39.22
1901	1.48	1.65	3.87	2.82	2.78	7.43	2.07	2.53	1.56	3.61	2.19	3.54	35.53
1902	0.87	1.20	2.93	1.56	4.97	9.04	4.26	4.71	3.31	2.11	4.22	3.89	43.07
1903	1.10	2.45	2.73	4.54	1.21	1.10	3.43	3.48	0.71	2.24	0.56	0.29	23.84
1904	1.25	....	....	2.97	3.58	2.32	1.57	3.20	4.64	1.01	0.30	2.26	....
1905	1.26	2.03	1.98	3.75	4.91	0.45	5.31	3.43	4.36	3.73	2.39	2.42	36.02
1906	4.99	0.65	5.30	1.57	1.03	2.54	2.95	3.27	3.93	0.42	3.80	3.29	33.74
1907	5.26	0.07	3.05	2.50	2.53	....	....	....	0.70	2.79	3.47	3.10	....
1908	1.53	5.11	4.64	5.57	9.27	2.48	2.75	0.80	1.79	0.20	3.05	1.12	38.31
1909	2.76	5.18	2.40	6.67	3.78	4.66	4.96	1.18	3.14	3.25	3.24	2.92	44.14
1910	2.60	2.82	0.23	3.59	4.13	3.00	5.30	1.63	4.66	3.90	2.65	1.25	35.76
1911	3.50	2.16	2.41	5.74	1.45	3.93	1.79	2.28	11.43	2.57	3.00	1.90	42.16
1912	1.09	1.22	4.24	5.19	4.59	2.46	8.56	5.81	2.65	1.01	2.15	0.65	39.62
1913	7.42	1.39	7.09	2.46	2.31	0.95	2.92	2.06	3.62	4.33	4.03	1.49	40.07
1914	1.23	2.67	1.85	2.61	1.40	2.18	3.11	3.59	2.73	3.10	1.74	1.82	28.03
1915	1.51	1.12	0.78	1.13	6.38	1.75	6.89	6.62	4.71	1.87	2.84	1.66	37.26
1916	6.58	0.63	2.54	1.15	5.19	7.21	3.04	2.18	1.72	1.36	1.77	3.52	36.89

†Interpolated.





## RUSHVILLE, SCHUYLER COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1889	1.70	1.86	0.81	....	....	....	....	....	....	....	3.79	1.20	....
1890	2.99	1.43	2.49	2.33	3.42	3.92	4.19	2.14	3.64	1.49	2.06	0.25	30.35
1891	1.05	2.09	3.49	4.49	4.74	2.57	4.78	7.94	0.61	2.34	4.93	2.13	41.16
1892	2.07	2.90	2.49	7.68	7.58	2.60	5.95	0.60	3.18	1.27	1.53	2.09	39.94
1893	1.16	3.02	3.77	9.10	7.36	3.03	2.45	1.91	2.96	0.22	1.72	0.81	37.51
1894	2.70	2.40	2.41	3.11	2.47	4.21	0.67	2.06	8.32	1.12	2.92	1.70	34.09
1895	1.75	0.37	1.03	2.88	3.32	3.88	5.53	4.85	3.44	0.53	4.72	5.90	38.20
1896	1.56	1.72	0.78	4.45	4.31	3.72	9.61	1.77	5.85	1.59	1.35	0.67	37.38
1897	6.03	....	....	....	....	....	....	....	....	....	....	....	....
1898	....	....	....	....	....	....	....	....	6.68	2.22	2.47	0.97	....
1899	0.89	1.99	2.75	1.14	8.38	2.58	4.25	3.00	4.26	3.43	1.96	2.02	36.65
1900	2.10	5.42	0.96	1.09	2.72	1.30	1.82	3.89	3.53	3.76	1.48	0.39	28.46
1901	2.50	1.21	3.37	1.89	0.69	3.86	2.65	0.70	2.63	0.71	1.07	1.75	23.03
1902	0.67	1.47	4.67	2.76	2.72	8.34	4.38	6.45	4.32	2.86	2.00	2.67	43.31
1903	1.08	1.50	2.45	5.63	4.41	2.26	3.13	4.26	3.99	1.98	0.97	0.95	32.61
1904	3.07	0.69	5.05	6.60	4.63	4.11	4.39	3.25	3.87	0.22	0.03	2.09	38.00
1905	0.51	1.07	1.75	3.53	3.23	5.33	2.83	3.02	5.39	3.11	1.03	1.72	32.52
1906	1.75	1.90	3.49	3.30	1.73	3.84	2.52	3.83	4.82	0.52	2.24	2.50	32.44
1907	5.86	0.25	2.83	3.99	3.66	4.26	6.82	5.94	0.89	0.84	1.30	2.00	38.64
1908	1.30	3.60	0.73	4.51	7.07	4.88	3.81	2.64	1.29	0.40	3.05	0.95	34.23
1909	2.02	2.70	1.02	5.16	5.56	3.51	3.99	0.81	3.99	2.92	2.57	2.32	36.57
1910	1.61	0.71	0.12	2.82	6.11	0.61	2.86	2.04	4.21	1.19	0.59	1.16	24.03
1911	2.45	1.62	2.33	3.66	1.77	2.32	3.07	1.91	14.65	2.18	2.12	2.89	40.97
1912	0.30	0.84	2.61	4.92	3.41	1.79	1.51	2.04	4.09	3.28	2.12	0.91	27.82
1913	0.94	1.40	3.88	3.05	1.77	1.95	0.58	0.44	2.22	2.87	3.35	1.09	23.54
1914	1.03	1.97	2.59	1.78	1.18	2.97	0.94	2.43	4.82	2.24	T	2.67	24.62
1915	2.51	2.06	0.89	2.28	5.54	6.57	7.42	4.73	7.26	0.64	2.22	2.67	44.79
1916	5.48	0.63	1.80	1.31	7.59	2.46	0.51	4.36	1.75	1.63	1.39	1.08	29.99

Values from September to December, 1898; all of year, 1899; from April to September, inclusive, 1900; and June to October, inclusive, 1901, are for Astoria, 13 miles distant.

## SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

1879	....	....	....	....	....	....	1.52	3.82	0.84	1.25	5.12	2.88	....
1880	2.70	2.89	2.37	3.23	5.76	2.47	1.82	1.80	3.15	2.04	1.60	1.10	30.93
1881	0.84	5.85	4.45	1.96	2.86	4.96	3.37	4.03	6.43	10.02	6.93	4.81	56.51
1882	2.48	7.92	4.92	3.85	10.59	12.71	1.89	3.13	1.21	3.76	2.60	3.15	58.21
1883	1.96	7.53	1.36	4.42	6.61	8.40	3.77	0.95	1.06	6.08	3.48	3.17	48.79
1884	1.51	4.24	3.70	2.49	3.79	6.20	3.62	1.54	6.86	2.74	1.30	5.19	43.18
1885	2.81	0.94	0.17	6.36	2.78	4.18	1.82	4.82	4.47	6.30	1.44	2.52	38.61
1886	2.19	1.86	2.45	2.98	3.56	3.83	0.05	4.19	7.24	0.80	1.74	0.80	31.69
1887	1.09	4.26	1.41	2.89	1.92	3.07	1.01	1.05	2.89	0.85	1.36	3.35	25.15
1888	3.03	2.03	3.48	1.41	8.61	5.50	4.59	1.43	1.70	3.61	3.41	1.99	40.79
1889	2.13	1.64	1.97	0.71	6.64	3.65	2.14	0.73	4.74	2.86	4.05	2.00	33.31
1890	5.72	2.01	2.20	2.94	4.33	4.50	2.14	1.03	0.96	1.30	1.29	0.26	28.68
1891	1.16	2.59	3.21	2.81	1.96	2.11	4.44	4.65	1.38	1.88	5.49	1.59	33.27
1892	1.14	3.41	2.69	7.19	7.51	2.51	5.63	1.89	3.48	1.05	4.19	1.78	42.47
1893	0.65	3.47	4.19	10.23	7.41	1.99	1.60	0.28	2.15	0.16	1.57	1.03	34.73
1894	2.51	2.58	3.09	3.36	2.80	1.56	2.06	1.86	2.94	0.85	1.63	3.10	28.34
1895	1.12	1.03	1.61	2.49	2.55	3.49	5.53	2.76	2.80	0.27	3.28	8.08	35.01
1896	1.77	2.11	1.25	1.91	2.49	6.45	8.51	1.87	5.42	1.76	1.88	0.31	35.73
1897	5.91	1.15	4.47	3.85	2.19	4.11	4.16	2.86	0.35	0.52	4.94	3.07	37.68
1898	5.81	2.70	9.65	3.76	5.12	4.76	2.34	4.40	6.82	6.15	2.94	1.83	56.28
1899	1.51	2.52	2.95	1.12	11.81	2.45	1.51	3.81	3.33	4.08	1.84	1.87	38.80
1900	0.88	4.85	1.50	1.06	2.49	1.45	2.89	4.44	5.15	2.63	2.61	0.41	30.36
1901	1.80	1.31	2.96	1.23	1.88	5.34	0.58	2.92	1.95	1.78	1.06	2.70	25.51
1902	1.01	1.01	3.73	3.03	1.80	10.10	1.41	5.12	2.30	2.15	2.82	2.23	36.71
1903	1.44	3.05	1.47	3.99	5.28	2.13	1.59	2.92	2.48	1.50	0.98	1.50	28.33
1904	1.98	1.49	4.73	4.81	3.74	2.34	4.25	2.63	3.96	0.11	0.02	0.57	30.63
1905	2.13	1.18	1.48	2.02	2.28	2.31	3.99	4.70	2.40	3.66	1.60	1.72	29.47



SPRINGFIELD, SANGAMON COUNTY—*Concluded*

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1906	2.99	2.18	4.02	2.26	3.70	3.03	0.93	4.88	3.77	1.46	3.13	3.14	35.49
1907	6.17	0.30	4.81	2.80	2.94	3.29	6.70	7.13	0.92	1.36	1.87	2.79	41.08
1908	1.77	4.28	2.21	4.48	7.27	1.38	1.37	2.62	1.22	0.29	1.17	1.62	29.68
1909	2.03	4.34	1.10	5.34	5.91	4.11	6.47	1.62	3.67	2.76	3.70	1.47	42.52
1910	1.68	0.94	0.18	2.81	4.39	4.58	2.63	0.78	5.34	1.74	1.57	0.86	27.50
1911	2.34	1.73	1.86	4.40	1.18	3.44	4.87	3.37	10.68	2.00	3.10	1.86	40.83
1912	1.08	1.56	5.18	5.88	4.40	3.13	4.47	2.87	1.42	3.49	1.48	0.31	35.27
1913	3.55	1.35	5.55	3.55	0.96	1.84	1.66	2.88	3.41	3.61	4.49	0.77	33.62
1914	2.13	2.53	1.01	2.99	1.11	1.69	1.39	3.32	1.82	2.08	0.49	2.20	22.76
1915	2.11	2.28	0.80	2.04	9.86	3.22	5.72	6.21	3.31	0.73	1.60	2.91	40.79
1916	4.77	1.00	1.89	1.43	4.21	3.14	0.31	4.34	3.35	1.97	2.26	1.22	29.89

## WARSAW, HANCOCK COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1889	1.80	2.20	1.00	1.35	3.36	1.70	3.28	1.15	2.20	0.14	0.03	0.18	18.39
1890	1.80	1.00	0.17	1.50	2.50	2.09	1.75	1.07	3.17	1.08	1.85	T	17.98
1891	3.00	1.40	2.73	5.16	2.50	3.90	1.86	2.76	0.01	0.08	0.25	0.06	23.71
1892	....	....	....	....	....	....	....	....	....	....	....	....	....
1893	0.40	1.66	2.25	5.25	3.47	1.59	0.88	0.95	1.77	0.22	0.77	1.08	20.29
1894	1.74	1.20	....	1.03	0.78	1.41	0.38	0.01	1.60	....	....	....	....
1895	....	....	1.29	1.63	2.66	3.08	4.29	....	....	....	....	....	....
1896	....	....	1.50	1.67	3.05	2.39	....	....	....	....	....	....	....
1897	....	....	2.37	1.20	0.53	3.93	....	....	....	....	....	....	....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1906	2.58	2.84	2.97	2.58	1.86	1.87	2.11	4.38	3.78	0.83	2.28	1.73	29.81
1907	5.15	T	3.83	2.48	5.27	8.12	6.45	4.29	1.76	0.60	1.15	1.50	40.60
1908	0.36	3.51	1.67	1.86	11.11	5.85	4.18	3.16	2.08	0.87	2.34	0.71	38.70
1909	1.23	2.53	2.04	4.80	4.01	6.19	5.66	0.15	4.35	3.72	4.73	2.17	41.63
1910	0.51	0.97	0.43	2.82	7.81	1.79	3.51	0.83	2.59	0.95	0.27	0.81	23.29
1911	2.52	3.39	1.40	4.56	0.32	0.16	5.26	1.63	7.57	2.17	2.35	2.16	33.49
1912	0.25	1.22	0.80	3.41	1.90	3.20	4.18	3.31	1.80	4.31	1.81	0.41	26.60
1913	0.97	1.42	2.36	2.60	4.14	4.92	0.11	2.74	1.58	1.67	1.78	1.55	25.84
1914	0.92	2.14	1.56	1.45	1.80	3.66	2.00	1.55	7.23	2.09	0.26	2.20	26.86
1915	2.29	1.52	0.90	1.93	6.73	9.88	5.88	2.14	6.27	0.34	2.76	1.66	42.30
1916	5.81	0.92	1.71	1.80	8.30	4.98	0.26	4.52	2.87	3.04	1.92	0.83	36.96

## WINDSOR, SHELBY COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1904	3.22	0.91	7.18	3.42	3.23	1.43	4.10	4.56	4.13	0.46	0.09	1.23	33.96
1905	2.00	1.57	1.86	2.22	4.40	3.46	8.06	1.34	1.14	4.21	1.52	2.14	33.92
1906	2.88	1.80	4.90	2.23	2.64	2.88	1.34	3.41	4.09	1.58	3.50	3.11	34.36
1907	4.99	0.48	3.88	2.22	3.82	4.40	5.63	4.60	1.57	1.30	1.92	3.22	38.03
1908	1.38	5.32	2.54	5.91	13.26	3.51	2.40	2.62	2.00	0.11	3.34	1.50	43.89
1909	2.42	4.16	1.94	9.23	5.49	3.95	6.80	1.20	2.94	2.76	3.73	2.25	46.87
1910	1.73	2.84	0.43	2.83	6.32	2.73	5.68	3.55	4.33	2.61	4.65	1.82	39.52
1911	2.22	1.91	1.87	4.50	4.46	1.49	1.92	4.18	14.76	3.78	2.80	1.56	45.45
1912	1.26	2.15	5.04	7.71	2.57	3.62	6.98	5.08	1.27	1.92	1.57	0.68	39.85
1913	4.86	1.86	6.87	2.46	0.41	2.18	0.92	2.12	3.20	4.26	4.28	0.60	34.02
1914	2.05	3.02	1.51	2.77	0.35	2.58	1.05	5.78	2.58	2.26	1.25	2.92	28.12
1915	2.11	1.87	0.87	2.30	8.80	5.87	8.19	8.28	3.02	0.81	2.19	3.97	48.28
1916	9.13	1.02	1.33	2.23	2.97	4.76	1.52	2.21	5.38	....	1.63	4.44	....

PRECIPITATION FOR CENTRAL DISTRICT  
AVERAGE OF ALL STATIONS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1856	1.30	4.69	0.90	2.18	2.47	3.20	3.58	3.15	3.62	3.50	3.39	3.95	35.93
1857	0.82	4.70	2.29	1.02	2.05	3.31	1.58	3.37	1.94	1.46	2.85	1.34	26.73
1858	2.07	1.66	2.37	4.32	7.30	5.57	6.60	1.96	2.95	3.70	3.16	2.57	44.23
1859	2.64	3.22	4.27	3.49	9.29	6.14	1.96	4.12	3.28	1.51	2.36	1.19	43.47
1860	...	...	...	...	...	...	...	...	...	...	...	...	...
1861	1.51	2.62	4.91	3.07	3.63	4.76	1.48	1.55	3.55	2.29	0.68	1.25	31.80
1862	4.89	0.68	2.23	6.87	2.00	4.34	5.34	1.70	6.15	1.62	2.20	4.93	42.95
1863	2.85	4.01	2.99	...	2.31	0.58	3.18	2.22	3.11	3.52	1.19	4.68	...
1864	2.35	0.73	2.16	5.55	2.09	1.27	3.64	1.58	3.29	2.43	3.78	2.75	31.62
1865	0.25	4.02	4.30	5.77	0.69	6.77	9.58	1.69	5.81	3.34	0.12	1.44	43.78
1866	3.63	2.73	2.44	4.47	3.54	1.48	3.60	3.09	8.69	4.91	0.51	2.46	41.55
1867	1.73	4.44	1.82	1.24	5.22	3.51	3.27	2.18	1.14	1.21	1.47	1.16	28.39
1868	1.06	0.49	6.22	5.48	6.31	2.64	3.56	3.69	4.09	1.59	4.07	2.41	41.61
1869	2.92	2.27	1.69	5.37	4.78	6.48	7.38	4.22	1.38	1.93	3.16	2.47	44.05
1870	2.04	0.47	4.40	1.50	1.69	2.33	3.12	4.74	3.00	3.67	1.85	1.90	30.71
1871	4.22	1.60	3.89	2.02	2.11	2.90	2.83	2.62	0.63	3.57	2.43	1.90	30.72
1872	0.51	1.41	2.87	2.62	2.79	7.61	5.68	2.20	2.92	0.56	1.15	1.30	31.62
1873	4.13	1.75	0.96	6.18	4.59	1.71	5.22	0.94	4.05	3.30	2.05	5.33	40.21
1874	2.94	1.77	1.67	2.89	2.21	3.81	3.34	5.25	3.92	1.39	2.53	1.09	32.81
1875	0.43	2.13	2.88	1.70	5.84	6.25	11.77	2.14	5.70	2.62	0.64	3.30	45.40
1876	2.13	1.48	4.57	3.63	4.70	5.46	7.12	5.02	9.58	2.02	2.27	0.21	48.24
1877	0.82	0.13	4.59	3.27	4.05	7.97	5.16	2.84	3.03	7.76	3.55	3.78	46.95
1878	0.86	3.27	3.96	2.79	4.19	3.41	3.11	5.67	1.25	2.58	1.55	2.89	35.53
1879	0.62	0.66	1.81	1.41	1.95	2.83	2.22	4.53	1.34	0.57	4.33	1.95	24.12
1880	3.88	3.32	3.09	4.94	6.01	2.73	2.11	3.08	2.78	1.89	1.74	1.49	37.06
1881	0.93	4.73	3.59	2.36	1.86	6.47	2.52	1.92	4.83	8.44	5.91	3.34	46.93
1882	1.94	4.76	4.21	3.72	7.50	9.31	2.81	3.64	1.22	3.25	2.45	2.16	46.97
1883	1.31	6.70	1.28	3.46	4.52	5.54	4.14	1.44	8.89	7.18	3.56	1.78	41.80
1884	1.84	3.67	3.02	2.56	3.81	4.97	3.04	2.23	5.59	2.99	1.76	4.62	39.60
1885	2.90	1.21	0.30	4.97	3.15	6.34	2.86	4.22	5.08	4.36	1.52	2.40	39.31
1886	2.70	1.51	2.64	2.34	3.96	4.71	1.22	4.13	6.02	0.78	2.32	1.22	33.55
1887	1.18	4.31	2.36	2.91	4.00	1.44	1.66	2.60	3.64	0.94	3.99	3.97	33.00
1888	2.60	2.17	3.41	2.09	6.35	5.79	5.26	3.18	1.95	2.83	4.22	2.61	42.45
1889	1.89	1.78	1.43	1.37	5.60	5.70	3.90	0.85	4.06	2.64	5.58	1.63	34.43
1890	4.91	2.32	2.34	2.72	3.38	4.38	2.99	2.46	2.85	1.77	1.96	0.47	32.55
1891	1.42	2.69	3.19	3.38	1.90	3.28	2.33	5.16	0.81	1.38	4.89	1.33	31.76
1892	1.62	3.00	2.07	7.43	8.15	4.06	4.29	2.27	2.43	0.99	4.04	1.55	41.90
1893	0.89	3.45	3.61	7.43	4.94	2.55	2.01	0.63	2.86	0.67	1.99	1.39	32.42
1894	2.30	2.27	2.85	2.71	2.58	2.35	1.71	1.64	4.13	0.88	2.18	2.07	27.67
1895	1.30	0.72	1.40	2.47	1.74	2.88	5.20	2.62	3.43	0.46	3.45	5.79	31.46
1896	1.08	2.00	1.65	2.19	5.05	4.39	7.36	3.43	5.89	1.10	2.23	0.59	36.96
1897	5.02	1.53	4.89	4.42	2.36	4.97	3.80	1.18	0.61	0.32	4.42	2.54	36.06
1898	4.49	2.01	7.45	3.29	6.50	3.79	2.63	3.63	5.62	4.19	2.46	1.49	47.55
1899	1.53	2.10	3.14	1.42	7.86	2.43	2.79	3.37	2.39	3.54	2.13	2.21	34.91
1900	1.05	4.83	1.64	1.37	3.84	3.57	4.22	3.94	3.90	2.89	2.63	0.73	34.61
1901	1.71	1.52	3.29	1.76	1.86	4.80	1.79	1.68	1.53	2.18	1.28	3.03	26.43
1902	0.96	1.31	3.65	2.69	2.92	9.36	3.71	5.58	3.76	2.41	2.90	3.02	42.27
1903	1.39	2.99	2.29	4.72	3.10	3.12	3.15	4.26	3.43	2.40	1.06	1.72	33.63
1904	3.18	1.15	6.31	4.41	3.62	3.33	4.69	3.85	5.19	0.52	0.25	1.38	37.88
1905	1.76	1.54	1.66	3.55	3.87	2.97	4.68	3.14	3.53	4.30	2.20	1.84	35.04
1906	2.84	2.04	3.88	2.43	2.91	2.96	2.25	3.99	4.35	1.32	3.55	2.90	35.42
1907	5.90	0.32	3.55	2.78	3.43	4.77	6.39	5.51	1.55	1.51	1.93	2.58	40.22
1908	1.36	4.24	2.53	4.65	8.86	3.17	2.89	1.70	1.50	0.54	2.60	1.32	35.36
1909	2.12	4.07	1.75	5.99	4.79	4.39	6.00	1.56	3.69	3.25	3.97	2.31	43.89
1910	1.90	1.69	0.31	3.15	6.04	2.57	4.10	2.22	4.72	2.34	1.58	1.27	31.89
1911	2.43	2.03	2.05	4.34	1.62	2.14	2.88	3.27	10.50	2.82	2.67	2.01	38.76
1912	0.90	1.55	3.74	5.48	4.66	2.96	3.73	3.76	2.20	3.06	2.00	0.70	34.74
1913	3.97	1.56	5.45	3.03	1.71	2.80	1.19	1.90	3.21	3.41	3.44	0.95	32.62
1914	1.78	2.33	1.32	2.49	1.63	1.98	1.83	3.28	3.73	2.62	0.72	2.12	25.83
1915	2.13	2.09	0.84	2.11	7.08	5.58	7.04	6.12	4.85	0.79	2.11	2.68	43.42
1916	6.78	0.85	1.78	1.55	5.63	4.37	0.96	4.20	2.70	2.29	1.96	1.85	34.92



# PRECIPITATION FOR CENTRAL-SOUTHERN DISTRICT BY STATIONS

## ALBION, EDWARDS COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1856	....	2.30	0.65	1.05	2.93	1.87	6.93	4.86	0.86	1.07	3.64	2.95	.....
1857	....	4.52	1.13	1.70	4.37	6.83	3.24	5.75	1.37	1.19	5.29	3.24	.....
1858	3.47	2.44	3.74	5.28	8.33	5.66	5.08	1.45	2.19	4.08	3.28	6.00	51.00
1859	2.26	4.60	4.02	5.91	2.78	2.64	4.14	1.62	3.62	0.93	4.17	4.33	41.02
1860	....	....	0.66	5.04	4.09	5.51	....	....	6.11	1.45	....	....	.....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1887	0.50	4.41	5.60	5.42	2.08	3.78	3.96	†0.40	3.20	0.79	3.55	3.60	37.29
1888	1.04	1.40	5.33	2.21	3.18	7.35	2.00	10.62	1.52	2.92	7.10	†4.01	48.68
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1893	....	....	....	....	....	....	....	....	....	....	....	....	0.85
1894	2.59	3.35	2.43	3.09	5.32	0.46	2.12	3.75	2.14	2.35	T	4.07	31.67
1895	4.25	0.15	1.45	2.09	1.87	4.67	6.21	2.20	2.95	0.96	5.48	2.81	35.09
1896	0.73	1.30	4.81	1.23	13.21	6.13	4.89	2.54	5.68	2.05	3.35	0.46	46.38
1897	3.73	4.08	10.19	7.47	2.62	4.34	4.82	1.05	0.74	0.63	6.32	4.60	50.59
1898	6.00	1.91	12.39	5.27	6.68	3.35	5.51	3.42	3.57	3.25	2.27	1.47	55.09
1899	4.42	2.89	4.58	1.19	3.66	6.55	4.24	2.10	2.72	3.15	3.12	2.74	41.36
1900	1.80	4.24	2.30	1.55	5.20	7.81	4.19	1.36	4.91	2.28	3.85	1.79	41.28
1901	1.31	2.34	4.00	3.10	1.60	3.84	3.31	2.11	1.99	2.87	1.72	5.70	33.89
1902	2.00	0.86	2.86	1.85	4.15	4.98	2.33	3.02	3.03	0.93	4.92	4.99	35.92
1903	2.40	4.59	4.26	3.18	*2.05	3.05	4.19	4.92	1.28	4.55	1.41	2.01	37.89
1904	4.47	2.71	12.06	2.82	3.06	3.57	1.80	2.23	5.86	0.45	0.60	3.28	42.91
1905	2.70	1.63	2.76	4.21	4.29	1.83	5.88	2.05	2.37	6.06	2.62	3.56	39.96
1906	5.44	2.44	5.35	1.61	2.00	1.99	2.00	3.92	4.85	2.14	5.45	4.45	41.64
1907	8.65	0.71	4.74	3.51	4.12	4.81	3.92	6.98	0.32	2.21	4.02	5.20	49.19
1908	2.56	6.55	4.99	5.38	7.60	0.99	2.59	1.83	0.71	T	3.59	1.15	37.94
1909	2.53	5.36	3.59	4.91	3.34	7.28	4.93	1.01	4.62	2.68	3.10	3.28	46.63
1910	2.55	3.84	0.18	3.48	2.69	1.36	6.00	3.53	5.30	7.27	1.03	1.79	39.02
1911	1.33	2.09	1.52	5.56	1.14	3.90	1.03	1.92	4.08	2.16	2.92	2.30	29.95
1912	2.87	3.18	4.96	5.79	3.97	5.36	5.21	4.49	4.96	1.16	1.97	1.22	45.14
1913	9.37	1.17	11.64	3.67	2.65	2.86	3.13	4.01	3.73	3.74	5.00	1.18	52.15
1914	2.16	4.15	3.13	2.59	0.49	1.99	1.55	3.00	5.76	2.80	0.78	3.82	32.22
1915	5.75	1.55	1.06	0.74	6.26	6.14	3.25	7.57	1.73	1.09	3.50	5.50	44.14
1916	8.90	1.53	2.40	1.40	3.83	7.12	3.85	6.10	1.76	2.27	1.91	3.37	44.44

Values for 1856 to 1860, inclusive, are for West Salem, 10 miles distant.

\*Value for Mt. Carmel, 16 miles distant.

†Value for Fairfield, 16 miles distant.

## CARLYLE, CLINTON COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1885	....	....	....	3.50	3.72	5.29	0.62	4.06	6.77	4.39	2.97	3.49	.....
1886	3.12	1.40	2.42	2.09	2.35	8.10	1.34	3.78	5.48	0.72	3.91	2.67	37.88
1887	1.31	4.46	4.51	3.47	4.03	2.75	2.02	0.38	3.10	1.12	7.45	4.04	38.64
1888	2.54	2.77	3.46	1.77	3.95	7.59	3.61	7.18	0.87	2.47	3.58	2.78	42.57
1889	2.76	1.76	1.81	*1.50	4.93	6.41	4.86	1.09	3.43	1.83	5.32	1.48	37.18
1890	8.41	3.86	4.56	5.40	3.65	3.08	0.58	1.22	3.44	0.60	2.39	0.77	37.96
1891	1.45	3.75	2.57	2.62	3.18	5.30	0.73	2.37	0.87	1.69	6.05	1.05	31.63
1892	2.44	3.03	1.24	8.33	6.81	4.60	4.21	†2.64	1.09	1.28	4.23	1.36	41.26
1893	†0.84	†3.72	2.73	10.94	4.16	5.62	3.49	0.89	4.85	0.51	2.02	1.28	40.55
1894	2.17	2.17	2.68	2.20	3.47	1.44	2.06	0.84	4.97	1.44	0.68	2.92	27.04
1895	2.30	1.06	1.97	2.06	3.85	1.90	10.42	4.19	2.46	0.55	3.64	4.53	38.93
1896	2.39	2.62	2.46	1.57	6.67	3.36	6.92	3.55	6.86	1.93	5.31	0.39	44.03
1897	4.04	2.75	10.24	4.45	2.77	3.50	4.23	0.21	0.09	0.64	5.43	2.75	41.10
1898	3.98	1.76	11.93	3.91	9.55	6.48	6.23	4.66	2.87	4.21	2.44	1.80	59.82
1899	2.79	3.21	2.68	1.80	4.18	2.38	3.09	3.33	0.46	3.70	1.72	2.82	32.16
1900	0.56	2.87	1.95	1.32	6.25	8.70	....	1.25	5.64	2.83	3.35	1.70	.....
1901	0.72	1.81	3.85	2.78	2.38	3.47	0.27	2.65	1.09	2.80	2.24	4.21	28.27
1902	1.07	1.02	5.23	2.50	2.47	7.75	3.00	6.44	2.51	1.36	2.86	3.96	40.17
1903	1.58	3.31	3.01	3.64	3.39	2.13	0.95	3.23	1.95	3.97	0.85	2.12	30.13
1904	3.10	0.71	8.69	4.48	2.41	2.73	6.92	4.53	5.95	0.83	0.38	1.20	41.93
1905	2.35	1.53	2.60	6.99	4.44	5.81	11.21	2.93	5.94	5.79	2.09	2.45	54.13
1906	3.08	1.78	4.72	1.71	1.64	2.05	0.47	2.65	5.26	0.84	4.90	2.13	31.23
1907	6.51	0.94	3.66	3.95	3.81	8.27	4.36	4.65	0.89	2.86	2.41	3.70	45.91
1908	1.90	4.51	3.48	5.05	9.93	3.90	5.10	1.90	1.10	0.50	4.15	0.50	42.07
1909	2.76	4.81	3.70	6.77	4.33	5.43	4.55	T	4.25	4.33	6.00	3.41	50.34
1910	2.60	4.57	T	3.81	5.40	3.15	6.55	3.80	7.30	4.70	0.22	1.52	43.62
1911	1.50	2.60	3.60	7.85	1.60	2.72	0.95	3.99	8.79	2.59	3.51	2.15	41.85
1912	†0.57	†3.60	†5.30	†7.42	4.31	3.54	5.18	3.30	2.17	2.00	0.65	0.60	38.64
1913	6.21	1.09	5.68	3.37	1.20	3.27	0.89	0.63	4.57	4.36	5.52	1.86	38.65
1914	2.41	3.77	0.90	2.12	0.41	1.76	1.11	4.29	2.55	5.68	1.67	1.65	28.32
1915	3.86	2.51	....	....	....	....	....	....	....	....	....	....	.....

\*Interpolated from surrounding stations.

†Values for Greenville, 19 miles distant.

## EQUALITY, GALLATIN COUNTY, ILLINOIS

1899	5.79	3.12	5.35	3.09	3.86	3.53	10.04	1.80	3.14	4.25	2.32	2.83	49.12
1900	2.41	4.22	2.43	1.87	3.89	9.93	2.07	1.15	2.81	1.50	4.07	2.12	38.47
1901	0.65	1.76	3.26	3.06	1.65	3.02	2.11	3.39	0.85	4.74	1.54	3.53	29.56
1902	2.55	1.03	3.09	3.09	2.71	1.84	1.69	3.39	3.74	1.06	4.91	5.17	34.27
1903	2.67	4.44	7.27	3.53	2.60	2.40	1.83	1.62	0.60	2.17	1.29	2.74	33.16
1904	4.39	3.49	7.80	4.09	3.33	3.95	3.69	2.70	8.85	2.05	0.39	2.66	47.39
1905	2.77	1.70	3.05	3.38	4.91	2.21	9.40	3.78	1.88	7.72	2.82	3.30	46.92
1906	7.60	1.99	6.88	2.16	1.48	2.88	3.93	6.33	5.06	1.56	7.75	7.52	55.14
1907	10.90	1.35	4.13	3.25	6.47	5.53	1.96	8.07	1.67	3.88	4.96	3.73	55.90
1908	2.85	6.58	5.21	5.85	6.20	2.45	4.34	3.81	0.44	0.05	2.69	1.30	41.77
1909	3.48	6.14	3.98	6.29	3.08	2.56	8.19	0.46	2.55	1.98	3.83	3.86	46.40
1910	2.37	3.80	T	5.30	2.70	2.84	9.26	3.94	3.51	13.17	0.24	3.05	50.18
1911	1.53	2.23	2.03	10.30	1.19	1.51	2.43	6.97	5.07	2.58	3.06	3.61	42.51
1912	4.50	3.73	6.12	7.06	4.15	4.26	5.93	8.00	5.42	1.65	1.57	0.93	53.32
1913	9.89	1.34	7.77	3.07	1.22	0.62	2.35	1.61	3.68	3.98	3.93	1.54	41.00
1914	2.38	6.26	3.98	3.14	1.38	2.00	1.34	8.28	5.83	4.97	1.05	4.24	44.85
1915	5.19	1.94	1.22	1.20	7.87	6.85	4.66	6.26	5.14	0.69	4.49	9.08	54.59
1916	8.61	1.64	....	2.85	2.45	6.75	3.18	10.93	1.67	2.22	1.46	4.40	.....



## FAIRFIELD, WAYNE COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1885	....	1.37	0.35	2.17	3.36	4.20	1.70	2.00	7.16	2.24	2.55	3.00	.....
1886	2.87	1.65	2.45	3.28	2.55	4.20	0.65	2.57	2.86	0.24	6.50	2.58	32.40
1887	2.06	3.96	5.93	4.63	5.33	1.73	2.49	0.40	3.85	0.70	4.87	3.96	39.91
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1888	3.70	2.00	3.49	1.04	2.18	0.12	1.93	5.91	0.44	1.08	1.99	4.01	27.89
1889	2.65	1.25	2.21	*1.10	4.40	5.75	4.72	1.75	5.49	*2.00	*5.30	*2.00	38.62
1895	....	....	....	....	....	....	4.51	1.78	2.86	....	3.97	3.64	.....
1896	1.15	1.69	2.88	1.24	6.81	8.29	6.00	1.36	6.64	2.43	3.98	0.43	42.90
1897	3.82	3.70	12.00	5.51	2.18	4.47	6.93	0.43	0.87	0.66	6.46	3.90	50.93
1898	5.06	1.20	11.99	5.01	6.69	5.05	5.05	4.91	4.35	3.30	2.39	1.64	56.64
1899	3.54	2.55	2.76	1.68	3.91	2.66	5.08	2.48	0.77	5.26	1.72	2.14	34.55
1900	0.93	2.94	2.18	1.17	4.24	9.07	3.82	1.75	3.94	1.63	3.45	1.64	36.76
1901	1.03	1.91	3.64	2.83	1.82	1.81	1.58	2.61	1.84	3.09	1.31	4.84	28.31
1902	1.48	1.00	3.65	1.78	2.97	4.55	1.83	3.29	1.55	0.76	3.18	4.11	30.15
1903	1.68	3.19	3.34	3.54	3.37	2.07	4.41	7.12	1.34	2.14	0.81	2.67	35.68
1904	3.04	2.15	9.72	2.86	3.90	2.78	4.90	6.83	6.04	0.34	0.70	2.63	45.89
1905	1.99	1.27	2.75	3.98	2.87	3.89	5.06	3.99	2.31	6.93	1.84	3.40	40.28
1906	3.99	1.90	3.39	2.28	0.70	3.45	2.45	3.68	5.43	2.95	4.50	4.14	38.86
1907	7.39	0.30	3.34	3.33	5.40	5.74	4.76	5.53	1.03	2.32	3.61	2.96	45.76
1908	†2.56	†6.55	†4.99	5.30	8.02	1.21	2.59	2.61	0.35	0.00	3.21	1.02	38.41
1909	3.02	6.83	3.91	6.18	3.17	3.95	5.35	1.05	4.10	1.86	3.60	2.34	45.36
1910	2.40	3.87	0.08	3.20	3.77	1.14	5.20	1.54	6.35	7.45	0.96	1.91	37.87
1911	1.40	2.19	2.00	6.21	1.20	3.89	0.84	2.53	6.80	2.01	2.64	2.91	34.62
1912	1.85	3.09	4.45	5.42	3.20	8.05	7.41	4.87	3.53	0.54	2.87	1.58	46.86
1913	10.18	1.05	12.43	3.70	2.32	1.48	1.41	3.46	4.65	4.08	4.40	1.84	50.98
1914	2.30	3.82	3.36	3.36	0.10	1.14	1.46	7.15	3.58	3.86	0.89	3.27	34.31
1915	4.04	2.54	1.00	T	6.95	5.59	3.41	....	2.16	....	2.61	4.71	.....
1916	8.76	1.30	1.79	1.16	3.60	5.24	1.85	5.94	3.90	2.66	1.63	2.92	40.75

Values for 1885 to 1889, inclusive, and April, 1908, to December, 1908, are for Fairfield.

Values for 1895 to 1907, inclusive, are for Cisne. Cisne is 14 miles from Fairfield.

†For Albion, 16 miles from Fairfield.

\*Interpolated from surrounding stations.

## FLORA, CLAY COUNTY, ILLINOIS

1869	....	....	....	10.90	5.10	6.40	6.10	2.70	4.30	3.00	5.70	3.80	.....
1870	4.90	1.30	3.30	2.50	3.00	4.30	6.30	5.10	1.30	3.50	1.80	2.60	39.90
1871	3.30	5.20	3.50	0.90	5.90	2.60	3.50	2.35	1.90	2.50	2.57	2.35	36.57
1872	1.05	1.70	1.90	4.20	4.70	3.10	9.50	2.70	1.70	1.00	0.50	1.70	33.75
1873	3.70	2.60	4.31	4.30	5.20	3.00	6.40	2.30	3.60	3.10	1.40	9.59	49.50
1874	3.20	4.60	6.30	6.10	3.60	3.40	6.20	9.80	1.50	2.20	3.80	4.30	55.00
1875	1.30	4.40	4.50	1.40	8.30	....	15.30	2.90	3.50	1.80	2.70	2.60	.....
1876	9.80	3.40	5.90	4.10	9.80	6.40	6.50	4.00	2.60	1.80	3.00	0.30	57.60
1877	1.70	1.20	3.15	4.60	6.40	11.40	2.40	4.50	1.60	4.60	3.60	3.00	48.15
1878	8.00	3.70	1.80	4.80	5.80	3.20	6.50	2.90	1.10	3.40	2.30	6.30	44.80
1879	5.10	1.40	5.10	2.60	2.10	1.20	2.30	5.50	1.00	2.90	5.00	3.20	37.40
1880	4.50	2.20	2.70	2.50	5.40	3.90	2.50	4.50	7.70	3.20	1.80	2.50	43.40
1881	....	1.85	3.00	1.80	1.71	7.50	....	....	....	....	....	....	.....
1882	....	....	....	....	....	....	....	....	....	....	....	....	.....
1883	....	....	....	....	....	....	....	....	....	....	....	....	.....
1884	....	....	....	....	....	....	....	....	....	....	....	....	.....
1885	....	....	....	....	....	....	....	....	....	....	....	....	.....
1886	....	1.02	3.79	4.55	1.25	7.57	1.89	4.69	3.52	0.73	6.75	3.03	.....
1887	1.48	6.24	6.56	4.90	3.51	3.56	3.48	2.26	2.77	1.17	5.23	3.65	44.81
1888	2.39	2.72	5.22	1.62	3.32	4.83	1.79	7.66	1.26	2.35	6.16	1.97	41.29
1889	2.60	2.49	2.23	1.16	4.88	11.49	6.14	2.00	5.66	1.95	5.45	2.11	48.16
1890	8.31	4.15	6.45	4.80	2.70	3.72	3.14	3.05	4.90	1.38	2.20	2.50	47.30
1891	1.50	5.15	3.25	1.87	2.00	5.00	0.20	6.10	1.40	1.80	6.60	2.20	37.07
1892	2.10	4.00	1.75	7.60	7.00	1.50	3.50	5.85	0.50	0.75	4.40	0.75	39.70
1893	1.25	3.20	4.20	10.85	4.95	2.75	0.65	1.20	....	....	2.90	1.33	.....
1894	2.41	2.43	2.97	3.20	3.77	1.91	2.96	1.75	4.09	1.60	0.68	3.00	30.77
1895	3.46	0.16	1.63	1.84	2.47	5.60	5.20	2.56	2.58	0.46	4.34	3.77	34.07

## FLORA, CLAY COUNTY—Concluded

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1896	1.05	2.02	2.75	1.55	4.05	5.20	6.26	1.04	4.23	2.31	3.92	0.31	34.69
1897	3.93	2.29	9.42	6.00	2.31	4.28	2.95	0.39	0.24	0.37	5.48	2.95	40.61
1898	4.86	.....	.....	.....	.....	.....	.....	.....	4.76	4.06	2.41	1.52	.....
1899	2.94	2.69	3.48	1.49	2.73	4.56	3.53	2.57	0.60	4.54	1.71	2.65	33.49
1900	0.76	3.17	1.91	1.36	4.95	8.28	5.61	1.28	4.26	2.24	3.04	1.94	38.80
1901	0.86	2.19	3.46	3.07	2.04	3.91	2.09	2.80	0.84	2.95	1.82	5.18	31.21
1902	1.25	0.94	2.64	2.35	1.55	4.63	2.53	3.13	3.37	1.01	2.85	*4.11	30.36
1903	2.04	2.02	3.57	4.79	1.75	2.18	3.89	5.62	2.51	1.81	0.83	1.92	32.93
1904	2.37	2.00	9.50	2.45	3.40	5.14	3.41	3.02	6.26	0.37	0.86	2.15	40.93
1905	1.45	1.29	2.32	3.45	4.06	2.29	5.85	3.36	2.35	6.95	1.83	2.86	38.06
1906	*3.99	2.33	3.87	1.22	0.69	2.52	2.17	4.76	6.78	2.29	5.71	3.33	39.66
1907	7.59	0.63	3.09	3.63	4.02	6.08	4.44	4.98	0.95	1.89	2.92	3.33	43.55
1908	1.50	5.43	3.18	5.16	7.82	1.08	3.22	0.90	1.06	0.10	2.80	0.98	33.23
1909	2.46	4.40	5.55	4.79	4.08	5.59	6.57	0.09	5.79	4.50	4.28	2.45	50.55
1910	†2.97	3.66	0.24	3.93	3.17	3.23	5.03	1.60	5.03	7.17	0.78	1.27	38.08
1911	†2.06	2.20	1.62	5.41	†1.73	†7.93	†1.28	3.92	9.82	2.81	2.91	1.87	43.56
1912	1.42	2.21	4.08	4.92	4.63	3.25	9.53	3.53	2.61	2.28	2.10	0.81	41.37
1913	7.82	1.25	8.03	2.58	1.58	3.25	1.77	2.67	3.77	4.60	4.67	1.44	43.43
1914	2.81	4.46	2.96	2.31	0.21	2.22	1.19	4.36	5.20	3.11	1.10	†2.79	32.72
1915	.....	.....	.....	0.27	7.50	6.39	5.62	7.71	1.49	0.26	2.55	.....	.....
1916	.....	.....	.....	1.28	4.26	2.48	1.13	.....	.....	.....	.....	.....	.....

Values for 1869 to 1881 and 1890 to January, 1898, inclusive, are for Louisville.

Values for 1886 to 1889 and September, 1898, to December, 1908, inclusive, are for Flora.

\*For Cisne, 11 miles from Flora.

†For Olney.

## GREENVILLE, BOND COUNTY, ILLINOIS

1882	.....	.....	.....	.....	2.96	9.45	3.68	.....	.....	.....	.....	.....	.....
1883	1.00	4.50	3.66	5.05	6.25	4.21	7.50	3.52	0.03	9.52	6.62	2.46	54.32
1884	2.80	8.90	3.22	4.16	7.89	8.15	6.82	4.16	6.14	5.00	2.38	7.62	67.24
1885	2.08	1.87	0.03	5.90	5.19	5.06	3.97	4.92	6.86	5.42	2.95	3.45	47.70
1886	4.20	1.85	4.17	6.00	6.40	8.45	1.90	4.03	7.24	0.37	2.80	3.30	50.71
1887	.....	.....	.....	.....	.....	2.97	2.21	1.31	4.09	1.39	6.38	4.68	.....
1888	2.68	2.75	3.64	2.28	5.00	6.52	6.06	3.92	1.47	2.62	4.59	3.00	44.53
1889	2.65	2.04	1.81	1.70	7.10	4.43	3.45	0.58	4.24	2.50	5.30	1.57	37.37
1890	9.61	4.50	4.21	4.62	2.58	2.49	1.17	2.60	2.89	1.00	2.06	1.64	39.37
1891	1.50	3.04	3.16	2.24	2.63	5.91	0.93	4.37	0.41	1.57	6.29	1.52	33.57
1892	2.62	4.41	2.37	7.91	7.79	5.37	3.10	2.64	2.08	1.53	4.26	2.28	46.36
1893	0.84	3.72	3.54	11.86	5.61	5.16	1.68	0.19	3.73	0.49	1.90	2.40	41.12
1894	2.45	2.45	3.53	3.52	3.31	1.51	2.69	2.31	4.74	0.78	1.89	2.73	31.91
1895	1.93	0.79	2.66	3.19	3.16	2.64	6.97	2.05	3.02	0.77	4.56	5.45	37.19
1896	3.54	3.32	2.37	2.26	7.28	5.03	2.26	1.50	5.82	2.80	5.36	0.82	42.36
1897	4.97	3.25	7.50	3.90	0.91	3.37	5.69	1.36	0.18	0.59	7.19	3.96	42.87
1898	3.97	4.23	9.73	3.58	6.51	4.28	4.37	2.61	3.80	5.58	2.26	1.47	52.39
1899	2.48	2.00	3.38	1.82	5.47	2.58	1.89	4.73	0.84	2.98	2.13	3.90	34.20
1900	1.41	4.86	2.09	2.27	7.63	8.39	2.51	0.51	4.27	2.04	4.05	1.20	41.23
1901	1.40	2.02	3.32	2.87	1.96	2.21	1.69	4.40	1.17	2.35	1.25	3.68	28.32
1902	0.61	1.37	4.19	2.69	2.63	8.15	2.02	4.41	2.43	3.24	3.41	3.92	39.07
1903	1.29	3.48	3.34	4.07	1.71	2.41	2.29	2.84	1.84	2.51	1.10	1.80	28.68
1904	4.25	1.10	11.43	4.19	3.52	5.33	5.12	5.98	5.04	1.31	0.20	1.84	49.31
1905	1.95	1.73	2.14	3.91	5.07	4.26	4.46	3.44	3.47	6.17	1.95	2.08	40.63
1906	4.50	3.07	5.35	2.72	3.04	3.65	1.37	2.03	5.52	1.48	4.25	2.61	39.59
1907	6.18	0.75	2.55	2.73	4.03	6.20	5.27	5.97	0.79	3.28	1.82	3.63	43.20
1908	1.46	5.68	3.93	5.35	8.73	5.29	4.94	2.25	0.55	0.02	2.72	0.97	41.89
1909	2.46	5.83	1.35	6.79	4.79	4.85	4.45	1.55	6.21	4.54	5.09	2.36	50.27
1910	1.93	2.65	0.07	2.55	3.76	4.17	8.01	3.35	6.47	5.05	0.32	0.94	39.27
1911	2.55	3.05	1.91	5.18	0.86	2.38	1.47	4.04	11.66	5.59	3.52	2.55	44.76
1912	0.57	3.60	5.30	7.42	3.22	*3.54	*5.18	*3.30	1.58	1.65	1.78	0.52	37.66
1913	5.01	0.97	8.33	2.42	1.04	5.37	1.86	0.72	3.52	4.55	5.48	1.26	40.53
1914	2.06	4.10	0.80	1.62	0.54	1.37	1.87	5.31	5.64	3.35	1.18	2.32	30.16
1915	2.84	2.66	0.62	1.52	10.08	5.56	5.12	11.19	.....	.....	1.74	4.26	.....
1916	9.01	1.70	2.05	1.42	3.25	4.13	2.04	8.31	2.34	1.32	2.18	2.26	40.01

\*Interpolated from Carlyle.



## MASCOUTAH, ST. CLAIR COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1882	3.50	7.25	5.00	2.65	4.75	5.81	5.12	2.37	4.25	3.66	5.74	2.37	52.47
1883	1.55	12.25	3.00	3.25	6.20	6.70	5.60	3.20	....	7.60	3.50	2.10	.....
1884	1.42	6.70	5.60	5.30	7.70	5.50	1.40	1.60	3.80	1.60	3.40	6.90	50.92
1885	1.10	0.71	0.44	6.30	2.30	8.10	5.00	4.20	7.10	6.60	3.10	3.74	48.69
1886	3.51	2.59	3.81	6.80	5.90	4.90	1.20	2.90	6.90	0.70	4.92	2.50	46.63
1887	1.58	4.70	4.80	3.40	3.80	1.50	3.50	1.20	2.70	1.50	5.50	4.20	38.88
1888	2.70	3.10	3.80	1.50	4.80	8.70	1.30	5.60	1.40	3.30	3.20	†2.03	41.43
1889	2.65	*4.80	0.80	2.20	4.90	5.00	6.40	1.30	4.20	2.40	4.80	1.60	41.05
1890	10.00	4.70	4.62	8.20	2.80	3.20	0.30	1.90	5.30	†0.85	2.60	1.30	45.77
1891	1.65	3.18	3.07	2.50	2.60	5.30	0.70	7.40	1.90	1.30	6.40	1.40	37.40
1892	2.70	3.00	2.45	9.20	7.70	6.20	3.50	1.10	1.40	1.40	3.60	1.55	43.80
1893	0.74	2.43	3.50	10.20	4.20	2.80	2.50	1.30	5.70	3.00	1.60	0.60	38.57
1894	1.17	2.21	2.40	3.50	4.40	1.70	2.00	1.50	4.50	0.80	0.40	3.63	28.21
1895	3.36	1.76	2.19	1.60	3.20	2.10	4.80	1.70	1.90	0.50	3.75	5.75	32.61
1896	1.54	2.41	2.89	2.30	9.70	5.20	3.80	1.40	5.80	1.90	4.20	0.10	41.24
1907	*7.35	*1.12	*2.39	3.85	8.19	3.33	3.61	4.50	1.74	2.82	2.76	3.45	*45.11
1898	4.03	2.89	11.33	4.21	6.84	5.62	4.84	5.57	3.80	4.42	2.43	1.48	57.46
1899	2.70	3.45	2.88	1.95	5.56	3.59	1.94	2.12	0.65	3.36	3.50	3.41	35.11
1900	0.40	3.99	3.40	1.80	5.50	5.17	2.65	1.47	3.32	1.99	3.84	1.44	34.97
1901	1.61	2.55	3.10	2.81	4.19	3.10	0.76	0.73	1.80	2.76	1.44	3.53	28.38
1902	1.36	0.83	4.78	2.70	3.15	5.00	2.59	4.40	2.52	1.55	3.53	3.75	36.16
1903	1.76	4.74	2.34	3.54	2.12	3.92	3.83	3.30	2.83	3.45	1.58	1.44	34.85
1904	3.15	1.71	7.78	4.11	3.25	6.90	5.05	7.50	4.25	0.88	0.70	1.52	46.80
1905	3.37	1.84	2.89	5.69	4.66	1.64	6.07	1.77	6.66	6.14	2.90	2.23	45.86
1906	4.28	3.35	6.22	2.00	1.50	3.04	0.90	2.33	5.12	1.85	*4.67	*2.09	*37.35
1907	*7.35	*1.12	*2.39	3.85	8.19	3.33	3.61	4.50	1.74	2.82	2.76	3.45	*45.11
1908	1.84	5.44	3.30	5.91	10.67	3.85	4.73	2.70	0.81	0.11	3.28	0.61	43.25
1909	3.04	4.13	4.40	5.62	4.48	2.90	7.63	0.07	4.16	3.22	4.56	2.68	46.89
1910	2.33	3.68	0.02	4.62	5.22	6.42	5.90	5.08	7.84	4.54	0.17	1.51	47.33
1911	0.76	2.89	2.24	6.41	1.68	1.82	1.58	3.70	5.85	3.51	2.68	2.00	35.12
1912	1.23	2.28	5.25	6.15	3.59	6.48	3.60	4.25	2.67	1.88	1.20	0.35	38.93
1913	5.10	1.20	8.81	2.86	1.26	1.92	2.13	1.98	2.97	5.15	3.90	1.60	38.88
1914	2.07	4.15	1.43	1.73	0.17	0.70	1.17	6.52	5.50	5.58	1.41	2.78	33.21
1915	2.42	2.43	0.57	1.44	8.29	9.07	4.69	12.98	1.70	0.81	2.95	3.17	50.52
1916	10.46	1.33	1.46	1.36	4.05	4.34	1.32	11.45	1.54	2.50	2.25	2.98	45.04

\*Interpolated from surrounding stations. †For Collinsville, 16 miles distant.

\*Values for November and December, 1906, January, February and March, 1907, and February, 1913, are for St. Louis.

## MCLEANSBORO, HAMILTON COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1882	2.99	4.97	3.22	2.86	6.27	3.93	3.06	7.85	3.99	2.82	2.77	2.60	47.33
1883	2.30	8.27	3.32	3.19	5.20	9.13	3.14	2.54	0.00	9.28	6.64	3.50	56.51
1884	2.15	3.87	2.55	2.96	2.80	5.27	1.78	2.70	3.80	1.92	1.88	8.24	39.92
1885	4.20	1.10	0.89	2.22	2.51	4.83	1.74	3.67	6.02	3.66	2.56	3.50	36.90
1886	3.51	2.75	4.10	4.14	4.92	3.82	1.28	2.61	2.50	0.70	6.69	2.69	39.71
1887	0.98	3.94	3.10	3.43	3.35	3.45	3.05	0.19	1.45	0.77	3.08	3.29	30.08
1888	2.81	1.57	4.77	1.48	2.79	5.83	2.18	7.76	1.06	2.28	4.88	2.47	39.88
1889	3.20	2.36	1.95	0.88	2.80	....	4.31	3.02	4.33	1.52	5.74	1.77	.....
1890	7.12	5.23	5.94	4.03	4.10	2.10	5.53	7.05	4.69	1.13	....	1.38	.....
1891	*3.30	*4.50	2.08	*2.50	1.92	3.59	1.29	8.51	0.78	0.55	5.20	2.35	36.57
1892	1.43	3.44	0.93	7.50	6.92	2.30	1.85	3.97	....	2.11	4.25	0.98	.....
1893	1.12	3.55	3.25	6.02	5.96	4.54	1.89	2.12	2.44	2.35	2.48	1.51	37.23
1894	2.35	2.88	3.01	3.38	5.33	1.12	0.98	....	....	....	....	....	.....
1895	....	....	....	2.22	1.99	7.62	7.11	2.03	3.00	0.57	5.57	2.85	.....
1896	1.47	2.24	4.51	2.00	7.06	4.55	4.38	1.29	3.91	1.73	2.39	0.70	36.23
1897	4.23	4.00	11.29	7.27	2.53	5.52	3.43	1.70	0.63	0.45	5.85	5.12	52.02
1898	4.98	1.29	11.11	5.38	6.05	4.99	3.57	5.15	2.75	3.77	1.26	1.69	51.99
1899	4.96	2.61	4.33	1.95	3.82	4.91	5.16	3.14	2.02	4.03	2.46	2.36	41.75
1900	1.24	3.52	....	2.08	5.34	6.13	4.45	0.63	3.07	1.53	3.97	1.25	.....
1901	1.41	2.10	3.79	2.73	1.06	2.39	2.87	2.65	0.94	2.33	1.36	5.20	28.83
1902	1.93	0.96	3.83	2.18	3.30	2.68	2.21	2.71	2.44	0.85	3.65	5.27	32.01
1903	2.21	4.86	3.72	3.75	3.38	4.09	1.31	3.90	1.71	2.96	0.98	2.20	35.07
1904	3.78	3.49	8.89	3.93	3.32	4.67	5.48	2.12	10.11	0.40	0.94	3.17	50.30
1905	2.61	1.55	2.61	4.25	3.49	1.81	7.39	3.30	3.08	4.01	2.66	3.46	40.17
1906	6.20	2.74	5.38	1.46	0.50	2.89	1.92	4.35	5.43	1.76	5.32	6.01	43.96
1907	7.72	0.91	2.97	2.16	3.61	2.89	1.62	5.80	1.03	1.96	3.83	4.12	38.62
1908	2.35	7.55	4.45	7.10	6.60	0.65	2.83	2.17	0.41	T	3.23	1.33	38.67
1909	3.08	6.63	4.13	6.55	3.66	3.13	6.34	0.31	3.72	1.52	3.44	3.58	46.09
1910	3.09	3.09	T	2.45	2.96	3.13	3.57	2.57	5.03	7.84	0.56	2.06	36.35
1911	0.84	2.72	1.51	7.57	0.86	2.71	1.62	3.17	6.19	1.87	3.07	2.48	34.61
1912	2.92	2.75	5.40	6.45	3.10	4.68	6.76	4.48	4.88	1.49	2.65	0.93	46.49
1913	9.55	1.18	9.91	3.30	2.25	1.57	1.40	1.21	4.03	4.52	2.80	1.68	43.40
1914	*2.46	*3.54	*3.37	3.77	0.34	1.91	0.68	2.70	2.94	3.06	0.28	3.80	28.85
1915	4.49	2.63	0.95	1.64	8.28	6.83	3.82	8.87	1.87	1.04	3.07	6.25	49.74
1916	9.29	1.90	1.73	1.77	3.11	5.06	2.71	6.19	2.15	2.31	1.82	3.88	41.92

\*Interpolated from surrounding stations.



## MT. CARMEL, WABASH COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1876	9.35	2.71	5.04	3.33	1.79	6.24	1.68	3.81	2.63	1.74	2.10	1.95	42.37
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1884	....	....	....	....	....	....	2.05	1.29	5.62	2.51	1.97	7.59	....
1885	3.81	1.48	0.95	2.71	2.85	4.38	2.38	5.16	8.57	2.96	4.28	2.20	41.73
1886	4.23	1.90	2.30	3.67	2.89	3.09	1.69	4.14	2.22	0.47	5.84	2.61	35.05
1887	0.87	4.53	3.96	4.52	4.29	0.75	4.14	1.61	2.91	0.91	4.42	2.80	35.71
1888	3.46	1.66	5.94	1.99	2.50	3.81	3.19	7.15	0.62	2.71	4.69	2.15	39.87
1889	3.24	1.76	1.47	2.04	5.60	4.72	3.60	2.13	3.84	2.29	7.11	2.82	40.62
1890	8.77	7.41	8.27	3.65	3.19	3.03	4.77	6.14	4.66	2.35	5.26	1.73	59.22
1891	2.83	6.04	4.70	2.05	3.19	3.53	1.57	2.11	1.22	0.48	5.48	3.25	36.45
1892	2.40	4.58	2.41	6.40	4.94	3.85	2.93	4.11	1.80	1.28	4.26	1.25	40.21
1893	2.61	4.81	4.00	7.93	4.56	5.84	1.41	1.44	3.43	3.18	2.62	2.02	43.85
1894	2.70	4.80	3.87	3.18	5.29	2.10	1.19	2.61	2.34	2.14	0.44	4.48	35.14
1895	5.84	0.50	2.61	3.14	2.43	1.83	5.77	1.91	2.96	0.42	5.75	3.55	36.71
1896	0.94	2.40	5.49	2.25	9.23	4.69	3.96	2.52	4.15	2.04	3.34	0.41	41.42
1897	4.52	4.10	10.22	6.20	3.14	3.15	3.10	0.59	0.60	0.58	6.69	4.88	47.77
1898	6.53	1.79	11.35	4.42	5.82	8.16	3.57	3.28	3.64	3.53	2.54	2.21	56.84
1899	4.93	4.01	5.16	1.15	3.35	5.65	3.47	1.39	2.03	4.89	1.82	3.33	41.18
1900	2.01	4.41	2.13	1.11	4.09	7.91	4.17	1.09	3.63	1.61	4.32	2.09	38.57
1901	1.63	1.70	5.20	3.34	1.84	4.44	0.32	1.46	2.14	4.43	1.74	6.07	34.31
1902	2.37	1.10	2.99	2.07	2.52	4.98	1.65	2.66	3.17	1.83	5.00	5.82	36.16
1903	3.58	5.46	4.44	5.82	2.05	6.22	3.46	2.71	1.38	3.96	1.89	3.44	44.41
1904	4.82	3.50	12.84	2.64	1.32	3.05	4.46	4.15	5.68	0.60	0.64	3.66	47.36
1905	3.28	2.28	3.14	4.82	4.82	2.39	7.48	3.54	1.26	7.14	3.00	3.32	46.47
1906	5.85	2.52	6.50	2.16	0.82	3.58	2.96	5.82	5.66	4.42	7.60	6.04	53.93
1907	9.39	1.28	4.50	3.48	3.80	3.64	3.42	6.88	0.64	2.02	4.72	4.92	48.69
1908	1.44	8.86	4.62	5.96	6.22	1.16	1.96	1.00	2.04	0.10	2.70	2.03	38.09
1909	3.20	6.06	3.99	5.90	4.42	5.69	4.54	3.88	3.16	3.74	2.60	4.88	52.06
1910	3.44	4.04	0.28	3.68	3.08	1.72	6.83	3.14	9.16	8.42	1.74	2.34	47.87
1911	2.26	3.02	1.82	7.10	2.00	4.34	0.88	2.28	5.44	2.80	3.36	2.86	38.16
1912	3.88	4.25	5.74	6.70	3.98	5.02	4.28	5.60	5.24	1.56	1.80	1.10	49.15
1913	9.76	1.16	12.13	3.86	2.06	2.58	1.84	1.28	2.88	5.45	4.60	2.54	48.14
1914	1.95	3.82	3.63	3.02	0.32	2.21	1.66	2.91	5.97	3.13	0.68	8.95	33.25
1915	4.67	1.39	1.17	0.63	6.33	4.74	2.31	7.28	1.70	1.02	3.34	3.94	38.52
1916	6.42	1.64	2.17	2.20	3.20	8.15	2.84	5.58	2.07	2.33	2.47	4.48	43.55

## MT. VERNON, JEFFERSON COUNTY, ILLINOIS

1895	....	....	....	....	2.21	1.94	5.94	3.15	3.13	0.27	4.66	3.80	....
1896	1.77	1.95	4.05	1.67	7.64	3.37	6.30	3.06	6.19	1.86	3.10	0.29	41.25
1897	3.57	3.39	10.18	4.47	1.30	7.49	3.00	0.77	0.41	0.56	4.00	1.89	41.03
1898	5.86	1.60	11.94	3.54	5.86	5.28	6.43	3.18	4.54	4.41	2.14	2.12	56.90
1899	3.26	3.38	2.90	2.27	4.19	1.94	4.98	2.40	0.90	3.95	1.30	2.19	33.66
1900	1.08	2.94	1.43	1.48	5.37	8.35	3.72	1.81	4.07	1.56	3.49	1.67	36.97
1901	1.37	2.54	3.79	2.51	1.23	2.32	0.69	3.29	1.53	2.25	1.79	4.05	27.36
1902	1.45	0.92	3.92	1.42	5.14	5.35	2.81	2.85	3.26	0.28	4.47	4.91	36.78
1903	1.66	3.37	3.15	3.66	2.54	4.89	0.94	2.87	1.94	3.20	0.84	2.68	31.74
1904	3.33	2.58	10.01	3.79	5.50	5.17	5.66	3.99	4.22	0.56	0.81	3.10	48.72
1905	2.42	1.41	3.18	4.92	3.55	2.14	7.97	2.75	4.24	5.87	2.52	3.89	44.86
1906	3.74	2.78	5.58	1.58	1.68	2.75	1.07	2.27	6.50	1.87	6.90	3.18	39.90
1907	8.15	1.00	3.38	3.22	4.39	5.50	3.98	6.61	0.97	3.49	3.64	3.50	47.83
1908	2.16	6.63	5.42	6.18	6.23	1.41	3.87	1.83	0.92	T	2.33	1.01	37.99
1909	3.82	5.17	4.98	7.50	4.45	7.13	4.03	0.30	3.72	1.55	3.23	2.81	48.69
1910	2.27	5.71	0.02	3.43	2.61	1.75	5.97	2.07	9.21	6.65	1.83	1.70	43.22
1911	1.23	2.80	1.59	6.25	1.06	2.08	1.44	3.68	7.51	2.62	2.63	3.10	35.99
1912	1.38	4.25	3.94	3.81	4.67	5.64	5.98	4.68	3.60	0.74	2.46	0.69	41.84
1913	8.76	1.05	8.84	2.94	1.89	4.57	1.44	0.80	4.20	4.66	3.84	1.83	44.82
1914	2.65	3.57	2.86	2.34	0.35	1.54	0.51	6.38	3.95	4.93	0.20	3.40	32.68
1915	4.16	2.48	0.76	0.92	7.61	4.60	2.73	9.87	1.68	0.50	2.34	4.76	42.41
1916	8.25	1.36	1.55	1.11	4.35	4.02	2.05	7.91	2.65	2.37	1.64	3.33	40.59

## OLNEY, RICHLAND COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1887	1.16	....	6.00	5.44	4.44	....	2.51	1.82	2.80	0.75	5.52	....	.....
1888	1.93	1.57	5.25	1.80	2.61	4.41	5.64	9.78	0.91	2.82	7.06	2.65	46.43
1889	2.73	2.66	1.91	1.23	4.70	5.71	7.59	3.32	5.09	2.71	4.66	3.96	46.27
1890	7.21	4.48	6.52	3.81	3.95	4.37	1.25	4.44	5.84	1.38	2.46	2.16	47.87
1891	2.06	5.48	4.23	2.74	1.30	3.54	0.56	4.41	1.33	1.45	6.71	2.37	36.18
1892	1.35	4.15	1.56	7.85	5.11	2.07	4.14	3.26	0.76	0.82	3.39	1.03	35.49
1893	0.64	3.73	4.05	10.44	4.14	5.38	0.96	2.65	3.95	1.97	3.10	1.74	42.75
1894	2.27	3.19	3.06	2.80	5.20	1.39	2.28	2.63	2.42	2.02	0.47	3.34	31.07
1895	4.25	0.45	1.40	2.15	1.78	3.00	5.85	1.48	2.06	0.13	4.40	3.47	30.42
1896	0.89	2.21	3.07	1.52	6.13	3.82	8.67	0.47	4.57	1.69	5.56	0.46	39.06
1897	3.77	2.92	11.77	6.49	2.75	4.48	2.85	0.40	0.71	0.52	6.57	3.86	47.09
1898	5.22	1.93	10.97	5.00	4.38	1.10	4.76	3.58	4.41	3.06	2.14	1.89	48.44
1899	3.98	2.81	3.03	0.99	2.93	3.95	2.82	2.92	0.93	2.86	1.82	2.66	31.70
1900	0.93	2.99	2.37	1.21	3.14	6.29	4.15	1.36	3.67	1.58	2.54	1.67	31.90
1901	1.00	2.88	4.24	2.58	3.09	2.56	0.25	2.45	1.07	2.49	1.27	5.16	29.04
1902	1.41	0.69	2.64	1.51	1.85	4.70	3.07	3.20	2.14	1.33	3.51	4.01	30.06
1903	2.94	4.02	3.66	4.96	0.94	3.57	4.46	2.49	0.42	1.99	1.35	2.87	33.67
1904	4.00	2.05	10.60	2.20	6.56	3.06	2.27	1.76	6.13	0.53	0.94	4.02	44.12
1905	2.89	1.29	2.61	3.74	3.11	2.09	4.13	4.40	2.07	8.70	1.65	2.41	39.09
1906	3.37	2.33	4.84	1.93	1.29	3.21	3.97	3.77	7.75	2.98	5.55	4.19	45.18
1907	7.53	0.52	4.50	3.92	6.38	5.77	7.08	6.37	1.35	2.43	3.57	3.52	52.94
1908	1.98	5.17	3.76	5.07	6.63	1.01	3.52	1.02	0.83	0.24	3.81	1.05	34.09
1909	2.77	6.42	3.80	3.44	3.52	5.57	5.03	0.81	3.94	3.60	4.13	3.28	46.31
1910	2.97	3.57	0.27	3.79	5.18	3.07	4.30	2.10	*6.72	6.55	2.32	1.78	42.62
1911	2.06	2.41	2.10	6.81	1.73	7.93	1.28	2.40	12.23	3.05	3.03	2.62	47.65
1912	1.75	2.08	4.56	4.50	5.84	2.32	4.64	*3.53	*2.61	*2.28	1.31	1.09	36.51
1913	9.01	1.10	9.57	3.23	2.37	1.48	2.18	1.97	4.04	3.72	4.89	1.41	44.97
1914	2.77	3.60	2.75	3.73	0.77	1.76	3.63	7.83	2.48	3.06	0.89	2.79	36.06
1915	3.63	2.91	1.11	1.21	6.65	5.53	5.76	8.82	1.58	0.75	3.54	4.34	45.83
1916	10.05	1.14	1.66	1.09	4.42	7.04	1.30	7.92	3.61	2.32	1.15	2.11	43.31

\*Interpolated from Flora.

## PALESTINE, CRAWFORD COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1882	....	....	....	....	....	5.60	1.92	3.27	2.17	1.68	2.02	3.88	.....
1883	2.10	8.47	3.62	3.40	2.09	4.43	8.30	1.95	0.35	7.58	7.65	4.10	54.04
1884	1.90	4.40	1.79	3.05	5.38	5.09	3.34	1.75	5.29	1.40	2.27	5.84	41.50
1885	3.25	1.65	0.46	4.70	2.85	3.40	2.40	3.08	8.73	2.59	2.61	2.33	38.05
1886	2.88	1.70	2.55	5.86	3.56	6.15	3.69	3.21	2.21	0.26	5.52	2.60	39.69
1887	1.01	4.83	4.18	3.84	5.30	1.30	1.59	2.60	2.44	0.88	4.21	3.40	35.68
1888	1.75	1.47	4.72	2.08	2.40	*4.98	2.30	4.50	0.76	2.55	5.67	2.16	35.34
1889	2.72	2.20	1.71	1.37	4.00	5.50	2.46	2.95	5.44	2.33	5.43	1.93	38.04
1890	9.20	4.96	5.65	4.07	4.31	2.58	2.35	3.56	5.38	2.97	2.74	1.90	49.67
1891	2.00	5.68	4.15	1.84	0.76	*2.87	0.86	6.30	1.33	1.38	5.65	2.13	34.95
1892	1.15	4.97	1.88	9.18	6.60	3.53	2.47	3.02	1.60	1.08	4.43	2.00	41.91
1893	2.00	4.39	3.40	9.12	3.70	4.60	0.71	2.71	3.33	3.37	3.12	1.53	41.98
1894	2.21	5.01	1.97	2.88	5.60	2.68	1.85	3.92	2.94	2.15	1.05	2.22	34.48
1895	4.37	*0.63	1.66	3.65	3.43	2.05	7.04	3.10	1.46	0.57	4.85	3.69	36.50
1896	1.00	2.47	2.19	1.07	3.90	7.33	7.76	3.22	4.30	2.60	5.30	0.54	41.68
1897	3.38	2.95	11.02	5.60	3.45	3.61	2.08	0.01	1.60	1.09	6.33	3.18	44.30
1898	5.33	1.56	11.45	3.82	3.15	4.06	2.80	4.29	7.42	4.61	3.15	2.33	53.97
1899	3.74	1.95	4.96	1.91	3.28	3.40	2.98	3.12	1.47	2.99	2.13	3.62	35.55
1900	1.95	4.55	4.02	1.47	3.86	6.77	11.96	2.00	4.43	1.59	4.06	2.64	49.30
1901	1.03	2.95	5.57	2.52	1.34	6.42	0.97	2.75	1.38	2.79	2.00	5.34	35.06
1902	2.46	1.43	3.77	2.23	4.60	7.73	1.63	6.22	3.14	2.40	3.37	3.78	42.76
1903	2.60	3.97	4.47	5.41	0.52	2.51	4.51	6.83	0.73	2.66	1.95	1.42	37.58
1904	4.10	2.30	9.76	1.95	3.16	2.22	3.81	2.78	5.45	0.10	1.10	4.48	41.21
1905	2.00	1.45	2.82	3.36	3.67	1.46	6.28	2.94	2.44	8.54	1.80	2.61	39.37
1906	4.81	2.25	5.07	1.32	1.40	1.66	3.56	9.97	4.05	1.09	5.05	3.35	43.58
1907	6.55	0.10	5.55	3.54	4.15	4.48	4.15	7.32	0.60	2.70	2.90	3.34	45.38
1908	1.60	5.89	4.13	4.64	9.58	1.96	2.48	0.87	1.78	0.10	3.23	1.40	37.66
1909	*7.76	*3.10	4.51	3.47	3.18	6.42	5.24	0.73	1.83	3.11	3.70	3.61	46.66
1910	2.71	3.67	0.19	2.53	3.37	2.27	11.11	0.59	4.51	6.64	2.45	2.19	42.23
1911	2.95	2.56	2.33	5.18	1.42	4.35	2.26	1.78	11.52	4.19	2.26	2.94	43.74
1912	1.23	2.16	4.17	4.53	5.69	3.62	6.83	5.30	5.30	1.62	2.59	1.30	44.34
1913	7.02	1.61	8.05	2.53	0.79	2.36	3.44	4.36	3.23	3.08	5.35	1.15	42.97

\*Interpolated from surrounding stations.



## ST. LOUIS, ST. LOUIS COUNTY, MISSOURI

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1830	....	....	....	....	....	....	4.97	12.25	5.16	5.79	1.28	0.55	.....
1831	2.08	1.06	4.58	4.39	1.95	1.34	1.88	2.51	1.99	6.76	4.08	3.68	36.30
	*	*	*	*	*	*	*	*	*	*	*	*	*
1836	....	....	....	....	....	....	3.66	6.51	5.90	2.59	4.20	5.02	.....
1837	0.84	1.35	3.13	2.34	3.00	3.46	2.48	2.73	2.85	0.79	1.96	2.01	26.94
1838	3.72	1.11	1.51	3.36	1.68	3.73	3.13	4.47	0.06	3.06	2.09	0.44	28.36
1839	2.21	2.50	2.59	5.46	7.93	7.26	5.71	2.89	2.45	3.96	2.48	2.00	47.44
1840	1.80	1.38	2.10	3.31	4.58	6.27	2.36	7.15	3.96	6.30	1.73	0.71	41.65
1841	0.84	0.88	4.99	3.85	2.38	1.67	3.09	5.63	3.22	6.81	5.44	3.93	42.73
1842	0.45	3.90	2.21	3.48	3.22	5.12	1.76	2.64	2.17	2.57	2.38	2.39	32.29
1843	2.34	1.90	3.49	4.87	4.15	3.95	2.49	1.32	2.19	1.55	4.82	1.72	34.79
1844	3.36	1.73	4.84	3.86	11.26	6.85	8.13	0.45	0.30	2.25	1.17	1.61	45.81
1845	1.83	1.07	3.18	2.22	4.42	10.01	4.75	6.23	1.03	1.16	1.10	0.93	37.99
1846	2.98	1.27	1.27	4.84	3.75	5.21	0.84	4.73	4.84	2.71	2.11	10.90	45.45
1847	2.12	3.58	2.28	3.98	4.36	8.61	5.37	0.90	3.26	8.74	8.63	0.89	52.72
1848	1.86	2.27	6.61	3.16	8.10	17.07	5.37	9.74	1.12	2.41	1.91	5.74	65.36
1849	4.18	0.56	2.70	2.64	2.71	6.46	9.40	5.15	5.81	2.17	2.11	1.82	45.71
1850	1.94	4.10	5.63	7.68	7.47	1.47	4.83	2.10	3.74	2.71	6.24	2.59	50.50
1851	0.61	6.74	3.14	4.70	2.83	6.19	1.77	8.97	0.49	1.51	1.99	3.90	42.84
1852	0.99	2.12	7.67	2.28	5.19	10.25	3.36	1.60	1.47	5.26	3.29	3.48	46.96
1853	0.52	1.67	0.79	3.24	3.64	3.23	4.10	5.48	4.67	0.96	1.51	1.08	30.89
1854	1.18	5.11	7.49	7.60	6.30	3.21	0.92	1.80	1.44	4.15	1.94	1.49	40.63
1855	4.66	0.70	2.89	2.65	7.46	4.27	5.17	6.53	3.89	3.89	5.16	3.10	50.37
1856	1.03	3.64	1.06	6.35	3.03	1.24	4.61	6.32	3.51	2.10	4.90	4.29	42.08
1857	0.41	7.74	1.80	1.72	4.81	3.71	2.82	4.15	3.18	3.02	3.80	1.87	39.03
1858	3.42	2.12	3.96	6.07	10.64	6.69	8.03	2.87	3.86	7.73	4.92	8.52	68.83
1859	2.32	5.35	7.32	4.89	6.60	11.02	5.54	2.93	4.44	1.80	5.43	3.76	61.40
1860	1.80	2.60	1.16	2.03	2.29	6.58	2.97	2.96	2.11	1.58	1.63	2.08	29.79
1861	1.16	2.01	7.38	3.18	4.39	4.96	2.04	3.44	4.14	2.85	1.39	1.09	38.03
1862	4.01	0.80	4.11	4.82	2.51	2.85	3.61	1.32	6.27	3.73	3.59	6.38	44.00
1863	4.11	3.99	3.02	1.55	2.68	3.16	2.51	6.93	1.56	4.76	2.15	4.03	40.45
1864	2.74	0.82	1.71	5.58	3.90	0.41	3.60	4.91	2.82	3.15	5.25	2.72	37.61
1865	0.87	3.75	8.61	3.31	5.66	5.21	7.94	1.97	2.60	3.33	0.00	3.63	46.88
1866	4.16	2.24	2.80	1.56	2.24	5.59	3.68	3.71	10.53	2.01	1.37	1.87	41.76
1867	2.28	4.81	2.37	0.53	8.26	5.64	3.71	2.29	0.17	1.31	2.74	8.65	37.76
1868	1.71	0.55	7.66	7.08	3.96	1.58	2.03	8.53	5.25	2.11	2.04	3.09	45.59
1869	2.02	2.49	4.24	4.61	3.60	6.25	2.49	5.51	1.70	3.42	7.48	3.16	46.97
1870	2.25	0.33	2.76	2.39	2.73	1.38	1.59	6.55	1.14	3.35	1.94	2.76	29.17
1871	2.53	2.92	1.27	0.49	3.15	2.51	1.64	3.55	0.25	2.07	1.83	1.17	23.38
1872	0.64	1.15	2.43	2.77	6.04	4.28	4.59	0.93	3.38	0.55	2.01	1.70	30.47
1873	3.53	1.52	2.10	6.88	5.73	6.68	5.96	0.07	3.02	3.27	1.64	5.10	45.50
1874	3.14	3.66	4.36	3.44	3.70	2.00	5.71	4.70	2.30	1.09	2.32	1.46	37.88
1875	0.54	2.59	4.08	2.53	5.48	10.84	9.50	2.66	0.24	1.23	0.89	2.42	43.00
1876	4.75	2.86	6.90	2.25	3.13	3.43	5.90	5.03	7.63	1.66	1.74	0.18	45.46
1877	1.24	0.88	3.41	3.03	3.11	8.69	2.88	2.61	3.56	4.92	3.76	3.34	41.43
1878	3.36	1.69	2.79	6.74	4.63	2.40	3.92	4.75	3.42	3.27	1.38	3.48	41.83
1879	1.64	1.48	1.92	2.31	0.95	4.04	1.97	2.23	1.34	0.68	4.30	2.84	25.70
1880	3.83	2.65	2.51	3.31	3.44	2.56	5.17	1.53	3.10	2.09	2.67	1.80	34.66
1881	0.49	4.16	1.95	3.14	3.96	2.74	2.13	0.31	3.14	7.21	6.74	1.40	37.37
1882	2.80	8.94	3.49	3.58	4.55	4.53	3.84	2.20	1.73	2.44	3.24	1.81	43.15
1883	0.94	5.88	2.29	3.31	2.89	5.04	4.31	3.34	0.01	6.60	3.71	1.78	40.10
1884	0.79	4.43	3.00	4.15	2.68	4.52	2.86	1.21	6.04	2.48	2.30	6.18	40.64
1885	3.26	0.87	0.40	4.84	2.80	7.68	2.58	2.96	8.98	7.51	1.68	2.03	45.59
1886	3.11	1.71	3.04	2.10	7.84	7.09	0.55	2.44	9.60	0.85	3.36	2.65	44.34
1887	0.65	3.68	3.54	4.36	5.27	2.54	2.74	1.14	2.47	0.76	4.61	3.54	35.30
1888	2.15	2.39	3.79	1.88	3.81	8.09	2.09	6.66	1.31	2.59	4.40	2.01	41.17
1889	3.04	4.78	1.62	1.68	3.80	4.72	2.02	0.85	3.54	1.65	4.43	1.03	33.16
1890	7.47	2.86	5.99	4.05	5.81	3.18	0.37	2.43	1.80	0.86	1.55	1.32	37.69
1891	1.35	2.95	2.29	2.29	2.73	5.97	1.50	2.75	1.43	0.65	5.30	1.32	30.53
1892	1.52	4.89	1.92	7.60	7.87	2.73	4.64	1.75	1.59	1.66	3.46	1.99	41.62
1893	0.33	2.98	5.10	10.84	5.42	3.49	2.49	0.65	3.69	1.66	1.36	1.32	39.33
1894	2.56	2.88	2.69	2.68	3.61	1.12	1.35	1.66	3.11	1.56	1.49	2.73	27.44
1895	1.65	0.43	2.82	0.46	3.16	2.46	7.26	2.08	2.01	0.23	3.98	4.66	31.20

ST. LOUIS, ST. LOUIS COUNTY, Mo.—*Concluded*

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1896	1.43	2.81	2.03	2.43	9.12	4.57	4.67	2.12	2.42	1.20	3.70	1.05	37.55
1897	3.75	2.67	8.25	4.66	1.59	5.32	3.23	0.66	0.09	0.31	6.21	3.43	40.17
1898	4.53	1.71	7.73	3.85	8.55	3.85	7.44	0.87	3.23	4.34	2.07	1.03	49.20
1899	1.66	3.40	3.96	1.98	6.32	2.32	4.54	2.77	1.27	2.89	1.95	1.55	34.61
1900	0.65	5.09	1.45	1.83	4.47	2.62	3.85	1.30	2.68	2.07	3.10	0.40	29.51
1901	1.12	1.86	2.94	2.35	2.69	3.92	1.47	0.76	0.64	2.12	1.21	3.72	24.80
1902	1.18	0.83	4.50	2.49	3.04	7.86	2.34	5.20	1.98	2.00	3.20	3.81	38.43
1903	1.76	3.14	3.20	2.79	2.08	5.71	2.68	6.16	3.06	1.37	0.61	1.25	33.81
1904	3.15	0.84	7.87	3.25	2.88	4.04	3.09	2.62	2.97	0.50	0.54	1.36	33.11
1905	2.47	1.12	2.35	2.32	4.67	2.72	4.42	2.58	5.56	6.64	1.63	2.06	38.54
1906	3.57	2.92	4.53	1.98	2.61	2.80	0.98	3.72	4.40	1.25	4.67	2.09	35.52
1907	7.35	1.12	2.39	3.65	5.57	4.96	3.32	4.36	1.57	3.15	1.89	2.06	41.39
1908	2.08	3.39	3.43	3.84	7.72	3.02	4.24	1.55	1.24	0.21	2.83	0.64	34.19
1909	3.20	3.94	3.69	6.18	5.99	2.63	7.34	0.66	4.22	3.40	4.36	1.89	47.50
1910	2.73	3.22	0.14	4.09	5.23	4.24	4.21	1.90	6.09	3.98	0.30	1.18	37.31
1911	0.85	3.02	2.22	7.46	2.26	1.34	0.64	3.51	7.09	2.63	3.44	1.67	36.13
1912	1.31	2.80	5.85	7.84	4.29	6.93	5.29	2.65	2.84	2.61	1.76	0.42	44.59
1913	4.34	1.20	7.97	3.57	1.53	1.55	3.61	1.50	4.50	4.08	3.12	1.62	38.59
1914	2.21	4.63	1.25	1.92	0.69	0.10	1.52	5.42	6.68	7.45	1.53	2.23	35.63
1915	2.83	2.30	0.44	1.20	7.67	9.77	6.02	11.43	1.41	0.90	1.97	3.34	49.28
1916	8.53	1.78	1.83	1.78	3.00	3.97	1.20	10.69	2.69	1.64	2.53	2.16	41.80

## TILDEN, RANDOLPH COUNTY, ILLINOIS

1887	1.65	....	4.62	2.66	4.49	2.27	1.93	0.88	2.97	2.28	7.09	3.41	.....
1888	2.17	3.27	5.18	1.82	2.79	7.23	1.30	10.22	2.26	3.55	4.48	2.49	46.76
1889	3.55	2.35	1.68	*1.60	3.68	8.11	3.41	3.59	2.27	1.51	5.15	1.66	38.56
1890	8.12	3.93	7.33	6.54	2.92	1.38	1.73	7.06	4.34	0.62	2.38	1.59	47.94
1891	1.88	5.22	2.00	2.74	2.87	4.27	0.65	3.43	0.66	1.93	6.23	1.83	33.71
1892	1.67	4.09	1.52	11.03	5.91	3.22	2.95	2.22	2.59	2.44	5.95	2.19	45.78
1893	0.28	1.77	2.74	9.23	4.09	4.14	2.64	2.39	3.07	6.55	1.68	1.23	39.81
1894	2.30	2.60	2.81	3.93	3.57	1.17	3.15	1.32	3.91	1.22	0.77	2.84	29.59
1895	1.50	0.45	2.53	1.03	3.08	3.84	3.75	2.56	2.65	0.41	4.30	5.45	31.55
1896	1.33	2.36	3.69	3.64	8.56	2.84	6.06	1.47	3.15	1.56	3.43	0.22	38.31
1897	3.16	2.37	10.51	3.55	1.57	4.88	0.93	0.49	0.27	1.13	4.54	4.13	37.53
1898	3.83	1.94	9.95	3.40	5.93	5.09	6.91	4.85	4.81	6.36	1.88	1.97	56.92
1899	2.16	2.91	2.27	1.30	3.04	2.72	5.79	1.64	0.93	2.75	1.33	1.89	28.73
1900	0.63	3.05	1.25	2.37	2.79	6.66	3.42	1.50	3.22	2.20	3.38	1.19	31.66
1901	0.99	1.96	3.03	2.11	2.32	1.37	1.33	1.05	2.37	2.28	2.40	3.59	24.80
1902	0.96	0.76	4.47	2.04	4.70	2.82	2.71	4.15	3.79	1.42	4.09	4.33	36.24
1903	0.95	2.89	3.06	3.13	2.69	2.51	1.35	3.58	1.63	4.32	2.05	1.69	29.85
1904	2.39	1.83	8.66	4.62	3.14	5.18	2.23	5.33	6.47	0.57	0.86	1.66	42.94
1905	2.61	1.52	3.79	4.63	3.09	0.26	11.34	3.20	5.19	3.91	2.02	2.92	44.48
1906	4.51	2.64	4.36	1.77	2.80	2.98	1.72	4.42	7.42	1.52	5.70	3.23	43.07
1907	6.13	1.16	2.66	3.73	5.40	4.41	2.60	5.11	3.99	3.01	3.17	4.05	45.42
1908	2.03	5.61	3.94	7.02	7.08	2.30	5.26	2.74	1.32	0.10	4.34	0.72	42.46
1909	2.95	4.27	3.96	7.53	3.97	3.76	6.14	0.07	5.47	1.97	5.56	2.86	48.51
1910	2.45	3.27	0.03	3.23	5.46	2.90	5.16	4.06	4.47	4.62	1.19	1.58	38.42
1911	1.17	2.52	2.08	7.98	1.46	0.91	1.67	3.92	6.74	3.71	2.71	2.72	37.59
1912	1.96	2.25	5.18	5.88	4.38	3.95	3.41	4.50	3.22	3.01	1.01	0.61	39.36
1913	10.69	1.38	....	3.05	2.60	2.76	3.32	1.87	4.21	8.52	2.86	1.59	.....
1914	3.02	3.61	2.43	2.58	0.50	0.95	1.03	6.39	3.08	6.27	1.07	3.72	34.65

Values from 1887 to February, 1898, inclusive, are for Jordans Grove.

Values March, 1898, to 1908, inclusive, are for Tilden.

Values from 1910 to 1916, inclusive, are for Sparta, in the same county.

\*Interpolated from surrounding stations.



PRECIPITATION FOR CENTRAL-SOUTHERN DISTRICT  
AVERAGE OF ALL STATIONS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1856	1.03	2.97	0.86	3.70	2.98	1.56	5.77	5.59	2.19	1.59	4.27	3.62	36.13
1857	0.41	6.13	1.47	1.71	4.59	5.27	3.03	4.95	2.28	2.11	4.55	2.56	39.06
1858	3.45	2.28	3.85	5.68	9.49	6.18	6.56	2.16	3.03	5.91	4.10	7.26	59.95
1859	2.29	4.98	5.67	5.40	4.69	6.83	4.84	2.28	4.03	1.37	4.80	4.05	51.23
1860	1.8c	2.60	0.91	3.54	3.19	6.05	2.97	2.96	4.11	1.52	1.63	2.08	33.36
1861	1.16	2.01	7.38	3.18	4.39	4.96	2.04	3.44	4.14	2.85	1.39	1.09	38.03
1862	4.01	0.80	4.11	4.82	2.51	2.85	3.61	1.32	6.27	3.73	3.59	6.38	44.00
1863	4.11	3.99	3.02	1.55	2.68	3.16	2.51	6.93	1.56	4.76	2.15	4.03	40.45
1864	2.74	0.82	1.71	5.58	3.90	0.41	3.60	4.91	2.82	3.15	5.25	2.72	37.61
1865	0.87	3.75	8.61	3.31	5.66	5.21	7.94	1.97	2.60	3.33	0.00	3.63	46.88
1866	4.16	2.24	2.80	1.56	2.24	5.59	3.68	3.71	10.53	2.01	1.37	1.87	41.76
1867	2.28	4.81	2.37	0.53	8.26	5.64	3.71	2.29	0.17	1.31	2.74	3.65	37.76
1868	1.71	0.55	7.66	7.08	3.96	1.58	2.03	8.53	5.25	2.11	2.04	3.09	45.59
1869	2.02	2.49	4.24	7.76	4.35	6.33	4.30	4.10	3.00	3.21	6.59	3.48	51.87
1870	3.58	0.82	3.03	2.45	2.87	2.84	3.95	5.83	1.22	3.43	1.87	2.68	34.57
1871	2.92	4.06	2.99	0.70	4.53	2.56	2.57	2.95	1.08	2.29	2.20	1.76	30.01
1872	0.85	1.43	2.17	3.49	5.37	3.69	7.05	1.82	2.54	0.78	1.26	1.70	32.15
1873	3.62	2.06	3.21	5.59	5.47	4.84	6.18	1.19	3.31	1.19	1.52	7.35	47.53
1874	3.17	4.13	5.33	4.77	3.65	2.70	5.96	7.25	1.90	3.15	3.06	2.88	46.45
1875	0.92	3.50	4.29	1.97	6.89	10.84	12.40	2.78	1.87	1.52	1.80	2.51	51.29
1876	7.97	2.99	5.95	3.23	4.91	5.36	4.69	4.28	4.29	1.73	2.28	0.81	48.49
1877	1.47	1.04	3.28	3.82	4.76	10.05	2.64	3.56	2.58	4.76	3.68	3.17	44.81
1878	3.18	2.70	2.30	5.77	5.22	2.80	5.21	3.83	2.26	3.34	1.84	4.89	43.34
1879	3.37	1.44	3.51	2.46	1.53	2.62	2.14	3.87	1.17	1.79	4.65	3.02	31.57
1880	4.17	2.43	2.61	2.91	4.42	3.23	3.84	3.02	5.40	2.65	2.24	2.15	39.07
1881	0.49	3.00	2.48	2.47	2.84	5.12	2.13	0.31	3.14	7.21	6.74	1.40	37.33
1882	3.10	7.05	3.90	3.03	4.63	5.86	3.52	3.92	3.04	2.65	3.44	2.67	46.81
1883	1.58	7.87	3.18	3.64	4.53	5.90	5.77	2.91	0.10	8.11	5.62	2.79	52.00
1884	1.81	5.66	3.23	3.92	5.29	5.71	3.04	2.12	5.11	2.49	2.37	7.06	47.81
1885	2.95	1.29	0.50	4.04	3.20	5.37	2.55	3.76	7.52	4.42	2.84	2.97	41.41
1886	3.43	1.84	3.18	4.22	4.18	5.93	1.58	3.37	4.73	0.56	5.14	2.74	40.90
1887	1.20	4.53	4.80	4.19	4.17	2.42	2.80	1.18	2.90	1.09	5.16	3.69	38.13
1888	2.44	2.22	4.55	1.79	3.28	5.79	2.78	7.25	1.16	2.60	4.82	2.64	41.32
1889	2.89	2.59	1.75	1.50	4.62	6.18	4.45	2.05	4.32	2.06	5.34	1.99	39.74
1890	8.42	4.61	5.95	4.92	3.60	2.91	2.12	3.95	4.32	1.31	2.63	1.63	46.37
1891	1.95	4.50	3.15	2.34	2.32	4.53	0.90	4.78	1.13	1.28	5.99	1.94	34.81
1892	1.94	4.06	1.80	8.26	6.66	3.54	3.33	3.06	1.49	1.44	4.22	1.54	41.34
1893	1.07	3.43	3.65	9.74	4.68	4.43	1.84	1.55	3.74	2.56	2.28	1.44	40.41
1894	2.29	3.09	2.86	3.12	4.44	1.51	2.06	2.23	3.52	1.61	0.79	3.20	30.72
1895	3.29	0.64	2.16	2.13	2.72	3.30	6.22	2.37	2.54	0.49	4.56	4.11	34.53
1896	1.48	2.29	3.25	1.90	7.64	4.95	5.53	1.96	4.90	2.01	4.07	0.47	40.45
1897	3.97	3.24	10.19	5.33	2.26	4.56	3.58	0.63	0.57	0.61	5.83	3.65	44.42
1898	4.94	1.98	10.99	4.28	6.33	4.78	5.12	3.86	4.15	4.22	2.26	1.74	54.65
1899	3.53	2.93	3.70	1.76	4.02	3.62	4.26	2.61	1.34	3.69	2.08	2.72	36.26
1900	1.20	3.77	2.22	1.63	4.77	7.29	4.35	1.32	3.85	1.90	3.61	1.68	37.59
1901	1.15	2.18	3.80	2.76	2.09	3.20	1.41	2.36	1.40	2.88	1.65	4.56	29.44
1902	1.58	0.98	3.75	2.14	3.20	5.22	2.31	3.93	2.79	1.43	3.78	4.42	35.53
1903	2.08	3.82	3.78	3.99	2.23	3.40	2.86	4.09	1.66	2.93	1.25	2.16	34.25
1904	3.67	2.18	9.69	3.38	3.48	4.13	4.14	3.97	5.95	0.68	0.69	2.62	44.58
1905	2.49	1.55	2.79	4.26	4.05	2.49	6.92	3.15	3.48	6.47	2.24	2.90	42.79
1906	4.64	2.50	5.15	1.85	1.58	2.82	2.11	4.29	5.66	2.00	5.57	3.88	42.05
1907	7.67	0.85	3.55	3.43	4.95	5.12	3.89	5.94	1.25	2.72	3.29	3.68	46.34
1908	2.02	5.99	4.20	5.56	7.79	2.16	3.69	1.94	0.97	0.11	3.21	1.05	38.69
1909	3.32	5.22	3.96	5.85	4.03	4.78	5.74	0.78	4.13	3.00	4.10	3.09	48.00
1910	2.63	3.69	0.11	3.58	3.90	2.96	6.22	2.81	6.21	6.72	1.01	1.77	41.61
1911	1.61	2.59	2.04	6.81	1.44	3.42	1.38	3.20	7.77	3.01	2.91	2.56	38.74
1912	1.96	3.02	5.02	5.99	4.22	4.76	5.66	4.46	3.62	1.75	1.84	0.86	43.16
1913	8.05	1.20	9.17	3.15	1.77	2.55	2.20	2.00	3.86	4.46	4.31	1.61	44.33
1914	2.40	4.11	2.53	2.63	0.48	1.51	1.44	5.43	4.55	4.40	0.98	3.06	33.52
1915	3.99	2.30	0.89	1.03	7.59	6.46	4.31	9.20	2.05	0.78	2.92	4.94	46.46
1916	8.83	1.53	1.85	1.58	3.59	5.30	3.04	8.10	2.44	2.19	1.90	3.18	43.53

# PRECIPITATION FOR EXTREME SOUTHERN DISTRICT BY STATIONS

## CAIRO, ALEXANDER COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1871	....	....	....	....	....	....	5.97	2.22	2.34	3.81	2.93	4.25	....
1872	1.44	2.26	2.02	4.52	5.00	1.79	3.45	0.19	2.56	1.16	0.57	1.56	26.52
1873	5.03	6.68	3.27	5.54	5.07	4.45	1.68	2.48	4.09	5.28	3.04	4.25	50.86
1874	3.11	7.38	6.68	7.57	1.55	2.20	0.52	2.79	3.14	1.54	7.34	3.81	47.63
1875	3.21	2.17	6.73	3.01	3.11	8.41	9.88	3.32	0.16	1.76	7.96	3.21	52.93
1876	15.05	2.34	9.84	2.67	5.84	6.62	3.44	5.24	0.73	2.14	0.96	0.73	55.60
1877	1.93	0.25	3.62	3.87	2.13	4.88	5.63	1.58	3.15	3.12	4.76	4.55	39.47
1878	3.05	1.94	2.97	5.61	4.41	4.61	2.81	3.45	2.99	2.59	3.80	3.53	41.76
1879	2.81	2.03	2.95	3.03	2.79	8.70	1.37	7.05	0.93	3.87	3.25	6.63	45.41
1880	4.56	5.01	4.52	3.25	4.64	2.92	4.34	2.61	4.55	6.96	3.98	2.22	49.56
1881	3.56	4.97	1.33	3.62	2.44	1.81	0.18	0.11	2.74	2.74	4.98	3.70	32.18
1882	6.35	10.14	4.22	4.14	10.22	3.34	5.25	3.46	3.28	2.57	5.96	2.65	61.58
1883	2.74	8.52	2.14	5.64	3.85	6.11	7.95	1.73	0.34	6.97	4.36	2.18	52.53
1884	2.32	5.58	4.20	3.65	4.57	2.95	7.34	2.74	5.02	1.89	2.41	8.99	51.66
1885	3.49	1.48	1.08	1.43	3.21	4.63	0.82	2.40	4.76	2.89	2.79	3.01	31.99
1886	3.82	2.54	2.84	6.64	2.98	4.87	1.01	2.84	2.52	0.45	5.73	1.74	37.98
1887	2.15	4.60	2.18	2.09	1.37	2.34	1.42	1.10	1.67	0.38	3.33	4.12	23.75
1888	2.80	2.51	4.91	3.08	3.58	5.48	3.32	5.45	0.28	3.24	4.85	2.40	41.90
1889	4.61	1.57	1.40	0.97	1.91	8.07	5.15	1.10	3.82	2.81	5.56	0.77	37.74
1890	6.32	7.57	6.14	3.76	4.19	1.45	1.62	5.16	2.29	3.04	6.08	2.91	50.53
1891	3.95	3.20	5.86	1.55	2.48	3.97	2.21	4.77	0.29	0.49	7.30	3.49	39.56
1892	2.01	3.32	2.29	5.28	5.55	3.55	1.73	5.23	0.90	0.74	4.20	3.91	38.71
1893	1.26	3.93	2.09	6.91	6.70	7.59	1.23	1.64	6.83	6.26	2.75	1.60	48.79
1894	2.18	4.77	4.14	2.54	2.79	1.04	1.92	1.68	2.69	1.47	1.42	3.87	30.51
1895	3.77	0.39	2.76	2.75	1.48	4.86	5.97	0.71	1.86	0.50	5.27	3.25	33.57
1896	1.45	1.69	3.97	2.57	10.82	4.73	2.31	1.78	2.95	1.73	4.18	1.18	39.36
1897	3.89	3.95	7.50	6.49	1.12	6.87	2.76	0.89	0.53	0.91	5.50	3.69	44.10
1898	6.26	1.18	9.20	2.13	5.36	1.73	5.67	3.56	6.11	4.64	1.55	1.27	48.66
1899	5.46	2.51	3.59	2.33	5.27	5.74	3.90	1.06	2.25	3.42	3.05	3.84	42.42
1900	2.00	3.20	1.29	1.79	3.98	10.07	3.13	0.27	2.40	1.70	4.63	2.43	36.89
1901	1.52	1.73	3.62	2.70	2.00	0.91	4.57	3.83	1.56	3.40	1.77	4.02	31.68
1902	3.42	1.37	2.12	3.36	2.13	2.47	0.40	3.26	3.29	0.79	3.51	6.95	33.07
1903	2.35	4.19	4.28	1.85	3.52	2.37	4.89	0.81	0.75	1.98	2.07	3.85	32.91
1904	4.05	1.70	4.60	2.98	2.03	3.61	4.20	2.59	1.91	1.20	0.15	2.98	32.00
1905	3.41	1.98	2.84	2.19	4.11	6.00	4.43	3.79	0.69	3.00	3.64	3.40	39.48
1906	6.17	1.42	6.07	1.29	0.46	2.33	3.86	5.73	4.77	0.44	7.88	6.50	46.92
1907	7.77	3.58	3.39	3.81	6.78	2.95	3.92	2.43	1.14	2.90	4.43	2.48	45.58
1908	2.84	6.98	1.88	6.63	4.90	3.15	1.92	4.28	1.01	0.02	3.32	1.54	38.47
1909	2.54	6.70	7.10	4.85	3.96	1.88	3.13	0.01	5.66	0.74	2.53	3.84	42.99
1910	2.63	3.29	1.39	6.78	2.86	2.05	7.59	2.90	0.93	11.57	0.55	3.39	45.93
1911	1.56	2.66	0.77	5.77	0.22	2.08	1.99	2.82	5.15	1.08	3.30	2.71	30.11
1912	4.13	2.41	5.29	5.91	2.51	4.69	1.90	2.28	2.33	3.64	0.62	1.54	37.25
1913	11.65	2.08	7.23	2.27	0.87	1.07	4.19	1.54	2.22	5.50	3.14	0.84	42.60
1914	1.64	3.85	3.31	2.64	2.66	0.92	0.35	2.52	3.73	2.45	0.64	3.51	28.22
1915	4.85	2.90	0.75	1.01	4.13	2.42	3.51	10.28	4.16	1.20	4.18	6.61	46.00
1916	8.11	0.83	1.65	1.66	3.06	8.00	0.21	2.28	2.07	1.29	1.70	4.46	35.32



## COBDEN, UNION COUNTY, ILLINOIS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1875	0.95	2.71	5.88	4.09	7.98	7.11	11.09	2.01	0.38	2.09	5.25	1.51	51.05
1876	13.25	2.48	8.82	4.48	5.01	7.76	4.46	9.41	3.14	1.40	2.02	0.78	63.01
1877	1.80	0.70	3.87	4.75	4.45	7.12	1.64	3.47	5.95	5.33	4.58	4.78	48.44
1878	3.16	1.86	2.28	5.66	5.73	3.91	2.82	3.66	2.35	4.25	3.08	4.88	43.64
1879	4.70	2.10	2.39	1.48	2.65	7.02	4.46	12.51	1.40	5.75	4.93	5.59	54.98
1880	4.58	5.38	4.20	4.67	7.27	4.82	3.78	2.20	3.48	4.54	4.28	3.29	52.49
1881	2.79	5.34	1.99	2.29	2.57	5.35	0.00	0.38	1.91	6.51	6.10	2.17	37.40
1882	4.39	8.17	4.52	4.09	9.77	3.04	3.09	4.19	3.47	2.06	6.04	2.97	55.80
1883	2.25	8.19	3.93	5.75	6.64	8.21	2.86	4.02	0.51	7.21	6.85	5.14	61.56
1884	2.01	5.38	4.05	3.80	4.99	7.44	5.49	2.65	3.33	1.42	2.54	9.57	52.67
1885	4.64	1.23	1.43	2.69	2.24	6.89	2.19	4.13	4.54	3.43	1.80	2.92	38.13
1886	3.18	2.33	4.05	3.45	3.71	3.84	1.16	2.63	4.33	0.74	6.65	3.25	39.32
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1895	....	....	....	....	2.10	....	6.52	2.41	....	....	....	....	....
1896	1.51	1.55	3.72	2.89	9.30	5.50	3.76	2.24	2.38	2.32	3.75	0.89	39.81
1897	4.47	4.47	12.64	8.31	2.00	4.67	2.99	2.05	1.06	0.77	5.13	5.15	53.71
1898	4.20	1.37	14.16	4.28	5.76	7.83	7.35	4.81	5.21	6.42	1.60	1.69	64.68
1899	5.76	3.52	4.04	4.17	6.06	4.26	4.23	1.42	2.44	4.65	1.91	4.17	46.63
1900	1.70	4.09	2.28	2.70	6.57	9.52	4.52	0.51	2.55	2.20	4.00	2.90	43.54
1901	1.34	2.45	5.73	3.74	1.69	2.57	1.20	5.96	0.77	1.97	1.28	5.68	34.38
1902	1.52	2.53	4.22	3.04	3.13	2.78	0.82	4.45	3.42	0.84	4.92	6.36	38.03
1903	2.26	4.76	5.87	3.54	3.16	2.25	3.22	1.85	1.31	3.59	2.22	2.82	36.85
1904	4.05	2.90	6.75	4.28	2.54	5.84	2.83	4.73	9.11	0.90	0.32	2.55	46.80
1905	3.45	2.10	3.03	4.83	4.34	2.10	9.55	2.85	2.94	6.46	2.24	3.50	47.39
1906	6.45	2.36	6.70	1.17	0.67	4.77	3.80	5.07	8.72	1.67	7.75	5.50	54.63
1907	5.82	1.56	2.95	3.11	5.44	2.77	4.18	5.41	0.79	4.22	5.17	3.10	44.52
1908	3.86	8.06	4.60	8.10	5.16	1.70	3.37	3.75	1.92	0.00	4.90	1.07	46.49
1909	2.25	8.26	5.39	9.08	4.33	1.75	10.93	1.39	9.17	0.86	4.31	3.14	60.86
1910	2.43	3.53	0.10	6.19	3.66	4.29	10.82	1.89	2.10	11.43	0.26	2.60	49.30
1911	0.65	3.27	2.22	12.07	1.31	3.59	1.60	6.52	6.13	2.11	4.34	2.96	46.77
1912	2.90	1.43	3.37	6.85	3.64	*4.70	3.71	3.18	4.83	2.28	2.65	0.79	40.33
1913	8.13	0.85	7.94	3.19	1.91	0.90	3.77	1.45	4.81	6.97	3.47	1.47	44.86
1914	2.43	4.68	*2.97	3.47	1.21	2.05	0.54	4.06	3.16	3.61	1.01	3.67	32.86
1915	4.46	2.49	0.87	0.73	5.07	3.58	3.80	8.81	3.33	0.65	2.52	7.67	43.98

Values from 1875 to 1886, inclusive, and the years 1895, 1914 April to December, inclusive, and 1915, are for Anna.

Values for 1896 to 1908, inclusive, are for Cobden. The stations are 5 miles apart.

\*Interpolated from surrounding stations.

## GOLCONDA, POPE COUNTY, ILLINOIS

	0.50	1.20	5.88	2.05	3.33	....	3.32	1.67	7.83	0.87	3.20	3.48	....
1866	0.50	1.20	5.88	2.05	3.33	....	3.32	1.67	7.83	0.87	3.20	3.48	....
1867	1.90	6.20	4.50	0.70	6.00	1.80	4.40	1.10	0.60	0.90	3.20	1.60	32.90
1868	2.20	0.60	4.10	4.20	3.20	1.30	2.10	2.60	4.70	1.10	1.04	3.30	30.44
1869	1.40	1.20	9.40	4.20	2.20	4.00	2.00	1.00	0.80	0.60	1.10	2.76	30.66
1870	4.50	7.50	4.60	3.80	2.10	3.70	1.40	2.50	1.60	....	....	....	....
*	*	*	*	*	*	*	*	*	*	*	*	*	*
1878	....	....	....	....	....	....	5.66	1.12	2.96	3.74	4.80	4.73	....
1879	2.48	2.39	3.15	4.08	1.83	5.95	3.99	11.31	1.65	5.11	4.48	8.61	55.03
1880	5.67	5.51	4.27	3.74	7.50	3.57	6.07	2.65	4.53	6.71	4.37	1.67	56.26
1881	2.80	5.85	2.05	3.91	3.50	4.21	0.61	0.17	4.30	3.69	5.83	4.17	41.09
1882	6.05	10.19	4.72	3.85	10.24	4.00	5.90	11.58	3.83	2.81	5.64	2.43	71.24
1883	3.33	6.84	1.57	6.98	7.13	6.15	4.13	1.27	0.71	6.67	8.66	3.66	57.10
1884	2.12	6.61	4.04	4.95	4.74	7.52	5.49	0.49	5.02	3.46	2.07	8.15	54.66
1885	4.82	1.48	1.01	2.86	2.76	8.82	2.18	4.86	5.78	4.00	2.67	3.24	44.48

GOLCONDA, POPE COUNTY--*Concluded*

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1886	3.05	3.01	3.19	4.42	4.05	3.81	1.35	3.89	2.69	0.37	4.97	1.82	36.62
1887	2.14	5.32	2.39	2.89	2.00	2.66	1.11	1.71	5.19	0.64	4.02	3.67	33.74
1888	3.75	1.14	6.59	2.36	2.99	7.00	1.65	4.48	0.72	2.58	4.98	2.14	40.38
1889	4.54	1.15	1.58	0.95	3.38	7.27	5.27	1.57	4.78	1.58	6.58	2.53	41.18
1890	7.35	7.47	9.21	4.79	4.70	2.17	0.83	2.58	4.91	2.90	7.35	1.37	55.63
1891	4.58	3.50	6.62	1.64	3.05	4.84	1.85	6.33	0.38	0.75	7.94	3.84	45.32
1892	1.07	2.99	2.61	5.57	7.24	2.68	4.10	3.94	....	2.05	3.88	1.58	....
1893	2.04	4.11	2.43	8.82	4.92	3.78	3.04	2.50	2.62	4.63	3.32	2.45	44.66
1894	3.08	4.60	3.54	3.73	3.07	1.77	1.69	2.98	1.80	2.02	1.39	5.41	35.08
1895	3.79	0.38	3.16	2.71	†1.56	†4.44	9.03	1.13	4.04	0.77	7.20	3.46	41.67
1896	1.63	1.64	1.36	....	....	....	....	1.65	3.01	2.79	4.38	1.29	....
1897	4.49	5.13	11.44	7.65	1.70	3.58	3.84	1.01	0.20	1.29	4.23	3.38	47.94
1898	7.03	1.25	8.93	4.03	5.17	2.33	6.00	1.56	7.68	3.90	2.31	1.84	52.03
1899	6.78	2.97	6.12	3.39	6.20	3.32	4.19	3.47	2.33	3.62	2.14	5.27	49.80
1900	2.17	4.17	1.76	2.62	5.97	10.14	2.73	1.73	2.68	1.41	6.52	2.05	43.95
1901	1.66	1.54	4.10	3.98	1.51	0.91	1.96	3.54	0.70	5.45	1.94	4.33	31.62
1902	3.56	1.80	2.82	3.50	3.33	2.16	1.66	4.20	2.83	1.70	4.96	7.16	39.68
1903	2.63	5.22	5.90	2.65	3.34	1.60	2.76	2.35	1.94	2.83	1.81	3.71	36.74
1904	4.87	2.67	8.47	4.01	2.70	4.01	3.82	3.35	6.49	1.47	0.32	3.58	45.76
1905	3.71	2.03	3.34	4.12	6.93	2.04	6.17	4.30	3.44	7.18	4.34	4.53	52.13
1906	6.81	2.13	7.68	1.90	1.99	3.16	2.74	5.10	4.11	2.12	7.68	8.89	54.31
1907	8.90	2.05	4.04	3.84	7.07	4.82	3.70	6.38	2.09	2.68	4.78	4.12	54.47
1908	3.58	10.31	3.22	6.39	4.92	4.85	3.51	1.93	1.36	0.11	4.16	1.54	45.88
1909	2.78	9.94	5.89	7.05	4.23	3.93	4.09	0.08	5.15	1.39	4.58	5.23	54.34
1910	3.08	3.99	0.30	6.40	3.58	3.67	10.75	3.58	1.69	15.46	1.50	3.52	57.52
1911	2.66	2.62	2.13	8.60	0.99	2.92	4.52	5.40	4.75	2.38	4.00	4.30	45.27
1912	4.57	3.90	6.16	7.04	3.79	5.23	7.14	3.49	2.24	2.32	1.42	4.23	49.73
1913	12.66	2.92	10.77	3.60	1.73	3.07	3.69	2.94	3.96	2.67	4.77	1.83	54.61
1914	1.15	7.23	3.96	3.65	1.96	1.96	1.78	4.54	3.81	3.11	0.72	3.60	37.47
1915	7.45	2.48	1.71	1.32	5.27	4.04	4.86	....	5.49	1.12	4.48	8.60	....
1916	10.45	2.20	2.34	3.21	4.33	5.18	0.10	....	....	....	....	....	....

Values from August 1, 1898, to December, 1907, inclusive, are for Raum. All other values are for Golconda. These stations are 7 miles apart.

†Estimated.

## NEW BURNSIDE, JOHNSON COUNTY, ILLINOIS

1895	....	....	2.65	2.20	1.98	2.24	5.51	1.26	2.81	0.60	7.03	2.05	....
1896	1.33	1.20	2.86	3.36	9.44	5.90	4.90	2.54	2.54	1.74	3.14	0.68	39.63
1897	2.70	3.35	10.97	5.82	1.10	4.15	5.81	0.81	1.18	1.20	4.07	2.71	43.87
1898	4.67	1.07	8.51	3.76	7.28	2.77	5.82	3.28	4.33	4.35	0.99	2.24	49.07
1899	5.36	2.63	4.91	4.04	5.37	2.22	4.72	1.42	1.53	5.18	1.86	3.78	43.02
1900	1.84	3.36	1.89	2.08	3.90	9.08	3.43	0.77	2.36	2.74	3.99	1.61	37.05
1901	1.01	2.14	3.72	3.63	1.63	1.34	0.33	2.81	1.00	3.92	1.70	4.85	28.08
1902	2.89	0.77	3.08	3.49	3.20	3.40	2.04	4.33	5.07	*0.78	5.71	6.03	40.79
1903	1.01	4.90	6.21	2.76	3.06	3.13	1.43	2.13	0.89	3.35	1.06	3.19	33.12
1904	4.49	2.92	7.48	5.06	3.31	1.33	5.24	2.33	5.31	1.74	0.51	3.20	45.22
1905	2.61	1.72	2.72	5.25	5.59	2.31	10.39	3.00	2.96	6.44	2.74	3.58	49.31
1906	6.65	2.54	6.68	1.32	1.66	3.11	4.76	4.88	5.43	0.86	8.33	8.31	54.53
1907	9.97	2.11	3.77	2.84	4.85	5.26	4.72	5.56	1.28	3.10	4.30	3.16	50.92
1908	2.84	7.67	3.18	6.52	5.31	1.94	3.74	3.13	1.31	T	4.85	0.62	41.11
1909	2.60	5.35	3.02	5.45	4.01	4.67	3.28	0.15	5.47	0.83	4.09	3.06	41.98
1910	3.06	3.05	0.00	4.80	2.96	2.95	7.38	1.81	1.70	12.48	0.23	2.93	43.35
1911	T	1.84	1.78	11.22	1.78	2.78	3.17	4.09	5.45	2.94	2.14	2.38	39.57
1912	3.16	†1.92	4.66	5.84	3.65	4.70	3.14	4.04	3.50	1.77	1.58	1.39	39.35
1913	9.33	1.16	6.95	3.43	1.64	0.66	5.55	1.09	4.01	6.43	4.19	1.61	46.05
1914	2.06	5.75	3.18	2.49	1.50	1.53	1.97	1.82	3.83	4.20	0.80	3.62	32.59
1915	4.85	2.83	1.26	1.18	6.51	5.15	1.88	9.76	2.82	2.43	3.58	8.86	51.11
1916	10.38	1.69	2.17	3.87	2.12	5.90	1.69	6.22	2.11	2.16	2.02	4.97	45.30

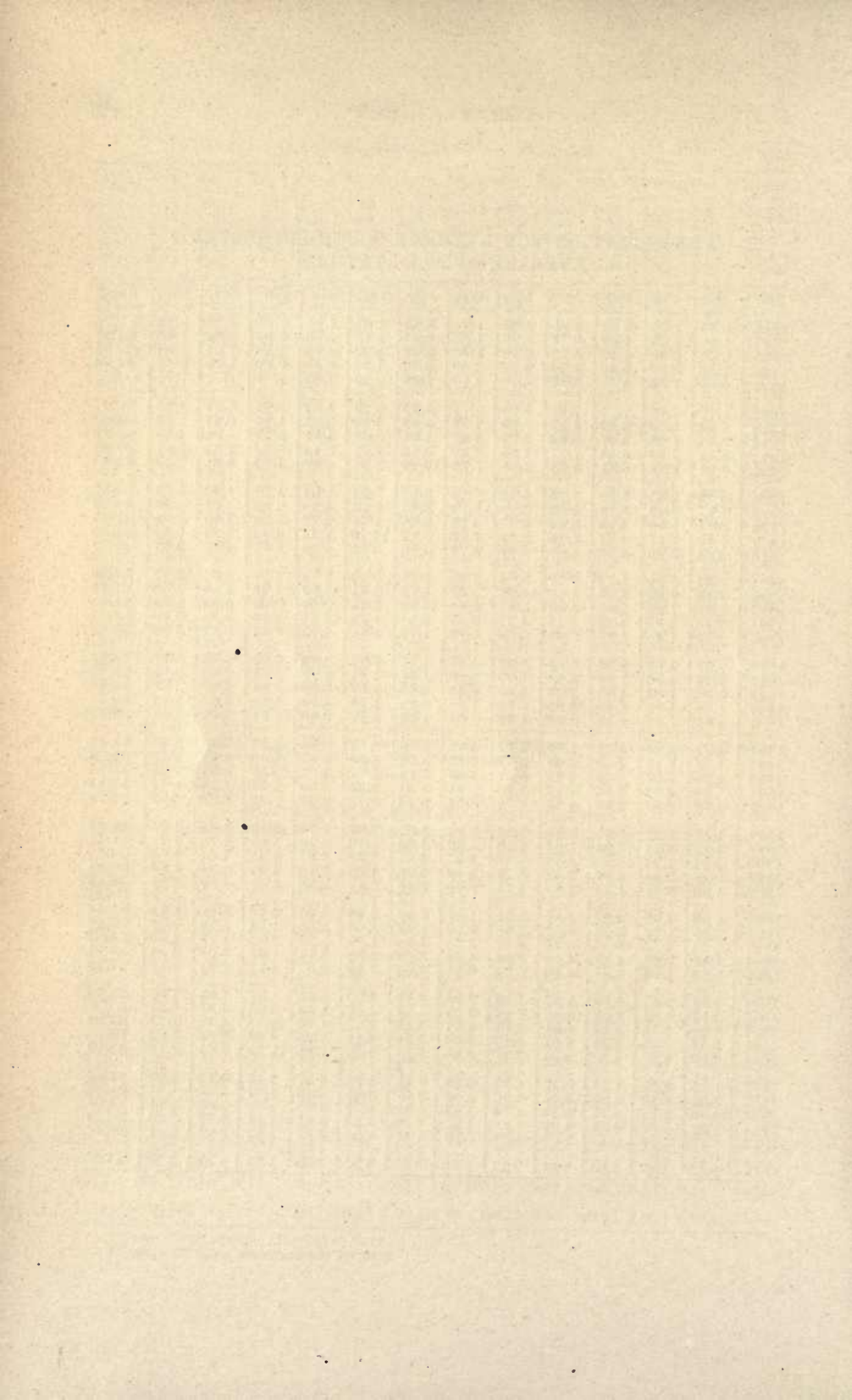
\*Value for Halfway, 15 miles distant.

†Estimated from surrounding stations.



PRECIPITATION FOR EXTREME SOUTHERN DISTRICT  
AVERAGE OF ALL STATIONS

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1866	0.50	1.20	5.88	2.05	3.33	....	3.32	1.67	7.83	0.87	3.20	3.48	.....
1867	1.90	6.20	4.50	0.70	6.00	1.80	4.40	1.10	0.60	0.90	3.20	1.60	32.90
1868	2.20	0.60	4.10	4.20	3.20	1.30	2.10	2.60	4.70	1.10	1.04	3.30	30.44
1869	1.40	1.20	9.40	4.20	2.20	4.00	2.00	1.00	0.80	0.60	1.10	2.76	30.66
1870	4.50	7.50	4.60	3.80	2.10	3.70	1.40	2.50	1.60	....	....	....	.....
1871	....	....	....	....	....	....	5.97	2.22	2.34	3.81	2.93	4.25	.....
1872	1.44	2.26	2.02	4.52	5.00	1.79	3.45	0.19	2.56	1.16	0.57	1.56	26.52
1873	5.03	6.68	3.27	5.54	5.07	4.45	1.68	2.48	4.09	5.28	3.04	4.25	50.86
1874	3.11	7.38	6.68	7.57	1.55	2.20	0.52	2.79	3.14	1.54	7.34	3.81	47.63
1875	2.08	2.44	6.31	3.55	5.55	7.76	10.49	2.67	0.27	1.93	6.61	2.36	52.02
1876	14.15	2.41	9.33	3.58	5.43	7.19	3.95	7.33	1.94	1.77	1.49	0.76	59.33
1877	1.87	0.48	3.75	4.31	3.29	6.00	3.64	2.53	4.55	4.23	4.67	4.67	43.99
1878	3.11	1.90	2.63	5.64	5.07	4.26	3.76	2.74	2.77	3.53	3.89	4.38	43.68
1879	3.33	2.17	2.83	2.86	2.42	7.22	3.27	10.29	1.33	4.91	4.22	6.94	51.79
1880	4.94	5.30	4.33	3.89	6.47	3.77	4.73	2.49	4.19	6.07	4.21	2.39	52.78
1881	3.05	5.39	1.79	3.27	2.84	3.79	0.26	0.22	2.98	4.31	5.64	3.35	36.89
1882	5.60	9.50	4.49	4.03	10.08	3.46	4.75	6.41	3.53	2.48	5.88	2.68	62.89
1883	2.77	7.85	2.55	6.12	5.87	6.82	4.98	2.34	0.52	6.95	6.62	3.66	57.05
1884	2.15	5.86	4.10	4.13	4.77	5.97	6.11	1.96	4.46	2.26	2.34	8.90	53.01
1885	4.32	1.40	1.17	2.33	2.74	6.78	1.73	3.80	5.03	3.44	2.42	3.06	38.22
1886	3.35	2.63	3.36	4.84	3.58	4.17	1.17	3.12	3.18	0.52	5.78	2.27	37.97
1887	2.15	4.96	2.29	2.49	1.69	2.50	1.27	1.41	3.43	0.51	3.68	3.89	30.27
1888	3.28	1.83	5.75	2.72	3.29	6.24	2.49	4.97	0.50	2.91	4.92	2.27	41.17
1889	4.58	1.36	1.49	0.96	2.65	7.67	5.21	1.34	4.30	2.20	6.07	1.65	39.48
1890	6.84	7.52	7.68	4.28	4.45	1.81	1.23	3.87	3.60	2.97	6.72	2.14	53.11
1891	4.27	3.35	6.24	1.60	2.77	4.41	2.03	5.55	0.34	0.62	7.62	3.67	42.47
1892	1.54	3.16	2.45	5.43	6.40	3.12	2.92	4.59	0.90	1.40	4.04	2.75	38.70
1893	1.65	4.02	2.26	7.87	5.81	5.69	2.14	2.07	4.73	5.45	3.04	2.03	46.76
1894	2.63	4.69	3.84	3.14	2.93	1.41	1.81	2.33	2.25	1.75	1.41	4.64	32.83
1895	3.78	0.39	2.86	2.55	1.78	3.85	6.76	1.38	2.90	0.62	6.50	2.92	36.29
1896	1.48	1.52	2.98	2.94	9.85	5.38	3.66	2.05	2.72	2.15	3.86	1.01	39.60
1897	3.89	4.23	10.64	7.07	1.48	4.82	3.85	1.19	0.74	1.04	4.73	3.73	47.41
1898	5.54	1.22	10.20	3.55	5.89	3.67	6.21	3.30	5.83	4.83	1.61	1.76	53.61
1899	5.84	2.91	4.67	3.48	5.73	3.89	4.26	1.84	2.14	4.22	2.24	4.27	45.49
1900	1.93	3.71	1.81	2.30	5.11	9.70	3.45	0.82	2.50	2.01	4.79	2.25	40.38
1901	1.38	1.98	4.29	3.51	1.71	1.43	2.02	4.04	1.01	3.69	1.67	4.72	31.45
1902	2.85	1.62	3.06	3.35	2.95	2.70	1.23	4.06	3.65	1.03	4.78	6.63	37.91
1903	2.06	4.77	5.57	2.70	3.27	2.34	3.08	1.79	1.23	2.94	1.79	3.39	34.93
1904	4.37	2.55	6.83	4.08	2.60	4.32	4.02	3.25	5.71	1.33	0.33	3.08	42.47
1905	3.30	1.96	2.98	4.10	5.24	3.11	7.64	3.49	2.51	5.77	3.24	3.75	47.09
1906	6.52	2.11	6.78	1.42	1.20	3.34	3.79	5.20	5.76	1.27	7.91	7.30	52.60
1907	8.12	2.33	3.69	3.40	6.04	3.95	4.13	4.97	1.33	3.23	4.67	3.22	49.08
1908	3.28	8.26	3.22	6.91	5.07	2.91	3.14	3.27	1.40	0.03	4.31	1.19	42.99
1909	2.54	7.56	5.35	6.61	4.13	3.06	5.36	0.41	6.36	0.96	3.89	3.82	50.05
1910	2.80	3.47	0.45	6.04	3.27	3.24	9.14	2.55	1.61	12.74	0.64	3.11	49.06
1911	1.22	2.60	1.73	9.42	1.08	2.84	2.82	4.71	5.37	2.13	3.45	3.09	40.46
1912	3.69	2.42	4.87	6.41	3.40	4.83	3.97	3.25	3.23	2.50	1.57	1.54	41.68
1913	10.44	1.75	8.22	3.12	1.54	1.43	4.30	1.76	3.75	5.39	3.89	1.44	47.03
1914	1.82	5.38	3.86	3.06	1.83	1.62	1.16	3.24	3.63	3.34	0.79	3.56	32.79
1915	5.40	2.68	1.15	1.06	5.25	3.80	3.51	9.62	3.95	1.35	3.69	7.94	49.40
1916	9.65	1.57	2.05	2.91	3.17	6.36	0.67	4.25	2.09	1.73	1.86	4.72	41.03





# TEMPERATURE RECORDS

(Degrees Fahrenheit)

## TEMPERATURE FOR EXTREME NORTHERN DISTRICT

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Av.
1876	26.3	26.4	29.5	46.2	59.5	67.3	73.4	71.4	59.9	51.1	33.8	12.3	46.4
1877	13.7	32.9	24.8	47.0	59.6	66.4	73.6	71.1	65.4	55.9	34.3	39.1	48.6
1878	26.4	33.3	44.6	52.5	55.4	66.1	75.6	71.8	63.5	52.4	38.1	17.9	49.8
1879	15.0	20.5	35.8	48.0	61.3	67.1	74.7	70.8	58.7	62.7	36.0	20.8	47.6
1880	33.6	27.9	33.6	47.6	66.0	70.7	72.9	72.1	60.3	52.6	26.0	17.4	48.4
1881	11.3	18.6	29.1	42.0	67.2	67.2	74.7	73.2	66.5	56.4	34.8	32.4	47.8
1882	22.4	34.1	35.5	46.4	53.0	65.7	67.5	70.4	61.8	54.4	38.0	21.4	47.5
1883	9.2	17.1	28.9	47.6	53.9	66.6	71.3	67.4	58.1	47.5	37.0	25.2	44.1
1884	11.5	21.4	30.2	46.2	58.8	67.3	68.8	67.2	66.6	53.2	34.5	20.7	45.5
1885	10.7	9.5	27.3	44.3	55.6	65.7	72.7	65.2	60.7	45.5	36.7	24.1	43.2
1886	13.1	20.7	30.7	48.9	59.4	67.0	73.1	71.5	62.2	53.0	32.4	16.4	45.7
1887	11.4	21.6	30.1	49.0	64.5	71.2	76.3	69.6	60.5	44.5	35.6	22.9	46.4
1888	8.1	18.4	26.6	45.9	53.8	68.8	73.5	68.9	57.3	47.1	37.6	29.0	44.6
1889	24.0	16.9	38.3	48.5	57.8	65.0	72.5	70.4	61.6	46.5	34.7	37.5	47.8
1890	25.1	29.1	27.0	49.3	55.4	72.5	73.7	67.8	59.2	51.5	39.1	26.4	48.0
1891	26.1	24.7	27.9	49.1	56.7	68.1	67.2	68.8	68.3	49.7	30.7	31.9	47.4
1892	15.1	28.4	30.5	44.6	54.3	66.9	72.1	70.5	62.0	52.1	31.2	18.0	45.5
1893	7.6	16.5	31.4	44.6	54.9	69.6	74.1	69.4	62.8	51.4	33.8	22.5	44.9
1894	22.4	19.2	40.5	50.0	58.6	72.0	75.2	72.1	64.9	51.0	32.1	30.8	49.1
1895	12.9	13.2	32.0	51.0	60.7	72.5	72.8	73.5	68.4	45.1	33.9	26.7	46.9
1896	24.8	24.4	30.3	54.1	67.0	68.9	72.8	72.0	59.4	48.2	34.5	29.4	48.8
1897	18.6	25.9	32.3	46.6	57.2	67.0	75.4	68.6	68.9	56.4	34.6	19.8	47.6
1898	23.5	23.4	37.9	46.1	57.7	69.3	73.2	70.1	65.3	48.1	33.7	20.0	47.4
1899	21.5	14.6	28.7	48.7	59.0	69.5	72.6	73.5	62.0	54.1	43.4	24.0	47.6
1900	25.9	15.2	27.8	50.2	61.8	67.7	71.7	76.6	64.7	59.6	34.7	27.6	48.6
1901	22.5	13.5	32.8	48.4	58.8	71.5	80.3	72.0	62.4	53.6	35.1	21.6	47.7
1902	22.4	17.0	38.6	47.1	61.3	64.6	72.3	67.7	59.5	52.7	44.3	22.6	49.1
1903	21.2	21.8	40.2	48.7	61.7	68.1	71.6	68.1	62.2	51.7	33.7	17.1	46.7
1904	12.9	13.7	33.2	42.5	58.3	66.7	70.8	67.5	63.3	52.5	42.2	22.5	45.5
1905	13.6	13.2	38.7	47.6	58.0	68.1	70.2	72.0	66.2	51.1	36.1	26.1	46.7
1906	27.4	23.5	27.5	51.0	59.7	67.2	71.8	74.0	68.1	51.3	37.0	27.4	48.8
1907	22.4	23.4	41.7	40.0	52.0	66.0	72.4	69.3	61.6	48.9	36.7	29.3	47.0
1908	24.5	23.3	36.5	48.4	59.2	66.7	72.4	69.8	66.5	52.2	39.4	26.8	48.8
1909	24.0	28.2	33.4	43.4	56.7	67.4	71.0	73.6	62.9	47.2	44.4	16.5	47.4
1910	18.6	18.2	46.0	50.7	54.1	68.4	75.5	71.9	62.3	55.0	32.0	21.5	47.8
1911	22.1	29.0	37.1	45.2	64.6	72.4	74.1	69.9	64.2	49.3	31.6	30.7	48.0
1912	4.5	16.3	24.3	48.4	60.7	65.5	72.0	68.6	64.2	52.2	39.6	30.1	45.5
1913	23.8	20.5	31.8	49.5	57.8	70.0	73.9	72.8	63.2	50.3	43.9	33.3	49.2
1914	28.4	16.0	34.4	47.8	61.1	68.0	73.9	71.9	65.4	56.1	40.0	18.1	48.4
1915	16.9	30.4	31.8	55.8	53.6	63.6	68.2	64.4	63.9	52.4	40.5	24.6	47.2

## TEMPERATURE FOR CENTRAL-NORTHERN DISTRICT

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Av.
1876	31.4	31.3	32.9	48.8	60.4	68.7	74.6	74.3	62.4	49.3	37.9	17.1	49.1
1877	19.1	37.0	28.6	48.3	59.1	67.9	74.5	72.4	66.6	54.9	38.5	42.5	50.8
1878	31.0	36.3	47.4	58.3	55.9	66.1	76.3	74.9	65.6	52.7	43.2	22.3	52.1
1879	16.6	24.4	38.1	47.6	59.9	66.5	75.5	71.0	59.6	58.4	39.6	25.1	48.5
1880	37.7	32.4	40.1	49.1	64.5	71.5	73.4	72.8	61.7	48.4	29.2	21.0	50.1
1881	14.5	21.3	30.2	43.3	64.5	66.8	75.3	75.7	66.7	55.1	37.9	35.7	48.9
1882	26.4	37.0	38.3	48.2	53.6	66.9	69.4	71.4	63.6	55.7	40.2	24.7	49.6
1883	13.2	21.1	32.3	49.7	56.2	67.9	73.3	69.5	60.7	49.3	39.9	28.3	46.8
1884	15.2	25.3	33.9	47.6	58.4	68.9	71.0	69.4	68.8	55.3	40.2	23.9	48.1
1885	13.9	12.8	30.2	46.8	55.5	68.1	75.8	68.3	63.1	48.3	38.7	26.9	45.7
1886	16.4	24.4	34.5	51.7	61.4	69.4	74.9	74.1	65.4	54.7	33.7	19.5	47.5
1887	14.1	26.2	33.0	50.4	62.6	72.1	78.3	70.9	63.5	46.2	36.2	25.2	48.3
1888	12.1	21.4	30.6	47.6	55.8	69.1	74.6	69.8	59.2	48.2	38.9	31.8	46.6
1889	27.2	20.8	39.7	50.1	59.1	66.1	73.0	70.3	62.2	47.5	37.0	39.9	49.4
1890	29.3	32.5	30.1	51.1	57.2	74.1	74.7	69.4	61.3	51.5	41.1	29.5	50.1
1891	28.4	28.0	30.7	51.0	57.2	69.9	68.9	70.2	68.1	51.3	32.8	34.6	49.4
1892	17.4	30.9	33.1	46.7	55.9	69.0	73.5	72.1	63.5	53.5	33.7	22.5	46.8
1893	10.8	20.5	35.0	47.5	57.1	71.4	76.2	70.6	65.5	53.4	35.6	25.9	47.5
1894	26.1	23.0	43.4	52.4	60.2	74.2	75.7	73.4	66.6	52.9	34.5	32.2	51.2
1895	16.4	16.1	34.6	51.9	62.7	73.4	72.8	74.2	68.9	46.1	35.9	28.7	48.5
1896	26.9	26.4	32.7	55.1	67.9	70.0	73.8	72.9	60.6	48.2	36.8	32.2	50.3
1897	21.0	28.2	35.4	47.6	57.8	69.5	76.6	70.3	70.1	57.9	38.0	23.6	49.6
1898	27.0	26.9	40.7	47.3	59.8	71.4	74.5	71.5	67.1	50.3	35.3	23.6	49.6
1899	22.7	17.2	30.3	51.7	61.7	71.4	73.9	74.4	63.2	57.3	44.2	26.4	49.6
1900	28.4	19.2	30.3	51.0	62.6	68.8	73.7	73.1	66.4	60.6	37.7	29.3	50.5
1901	25.9	16.0	36.0	48.5	59.6	72.9	80.8	72.8	64.2	54.3	35.9	22.1	49.2
1902	24.1	17.7	40.2	48.4	64.0	66.4	74.0	69.2	61.2	54.5	46.0	24.7	49.3
1903	23.7	23.8	42.3	50.2	63.4	64.6	73.5	70.3	63.9	53.1	36.1	20.4	48.7
1904	16.1	17.4	35.9	43.9	60.1	67.7	71.6	68.2	64.5	53.2	41.2	25.2	47.2
1905	16.5	15.1	41.2	49.0	60.2	69.8	71.5	73.5	66.8	51.7	38.9	28.8	48.6
1906	29.2	26.3	28.9	52.6	61.7	68.8	72.3	75.2	69.0	51.9	38.1	29.2	50.2
1907	25.9	26.2	43.3	41.9	54.1	66.7	73.7	70.8	63.2	50.4	37.9	30.8	48.7
1908	26.4	25.1	40.4	50.3	60.8	68.6	74.0	71.6	68.7	53.2	40.8	28.5	50.6
1909	26.0	30.8	35.8	46.7	58.1	69.3	71.7	75.5	62.8	48.8	47.1	18.2	49.2
1910	21.7	21.9	48.4	51.8	55.5	69.1	75.9	72.7	64.1	56.3	34.1	23.6	49.6
1911	25.3	30.4	38.7	46.9	66.6	73.7	74.9	71.3	66.4	51.0	33.2	31.9	50.9
1912	8.9	19.6	27.1	50.3	62.8	67.3	74.1	70.5	66.3	53.8	41.2	32.2	47.8
1913	26.9	23.1	33.7	50.7	60.0	71.4	76.4	75.1	64.9	51.7	45.8	34.6	51.2
1914	30.9	17.8	35.7	50.1	63.2	71.2	76.4	73.9	65.0	56.9	42.4	20.7	50.4
1915	19.4	33.3	33.6	57.0	56.4	65.7	70.3	65.7	65.9	54.6	42.6	26.2	49.2



## TEMPERATURE FOR CENTRAL DISTRICT

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Av.
1876	34.2	34.9	35.0	52.3	63.2	70.0	76.6	76.2	64.9	52.4	36.9	19.0	51.3
1877	22.2	38.4	32.4	51.2	62.4	71.9	77.4	74.5	69.2	55.9	39.5	45.4	53.4
1878	33.0	38.6	50.1	56.8	59.3	70.1	81.2	77.8	67.3	54.1	43.5	21.8	54.5
1879	20.8	28.8	42.2	51.9	65.2	70.9	80.2	74.6	63.1	62.7	43.4	29.1	52.3
1880	42.5	37.1	40.8	55.2	68.9	73.5	76.7	77.1	64.7	52.6	31.8	25.3	53.9
1881	25.2	34.4	39.5	51.0	62.9	71.4	75.5	75.9	69.3	58.7	42.2	33.9	53.3
1882	29.9	40.8	43.0	54.4	57.3	71.2	72.3	73.0	65.7	58.7	43.1	29.2	53.2
1883	18.2	27.2	36.8	54.1	59.9	69.7	75.4	70.8	62.9	52.3	43.5	32.8	50.3
1884	20.1	31.0	39.4	51.1	63.5	71.6	74.5	72.1	71.6	58.4	42.2	26.9	51.9
1885	19.5	17.9	35.3	51.1	60.6	70.1	78.2	71.8	65.2	51.5	42.5	31.8	49.6
1886	19.6	28.5	39.5	54.4	65.6	71.9	77.4	76.5	68.7	57.1	39.7	23.6	51.9
1887	21.2	32.3	37.6	52.6	67.6	73.5	80.3	74.9	66.5	48.3	39.1	27.2	51.8
1888	18.5	26.8	35.1	52.6	59.4	71.1	77.2	73.3	63.3	50.8	41.3	34.1	50.3
1889	30.9	26.8	42.6	54.9	61.7	68.5	75.0	73.0	63.8	50.5	38.2	44.0	52.5
1890	33.6	35.4	34.8	54.9	61.1	76.9	76.6	71.1	62.5	54.0	44.7	33.6	53.3
1891	32.9	32.6	34.7	55.3	60.7	72.9	71.6	71.8	70.7	53.9	37.1	37.9	52.7
1892	20.7	35.6	36.7	49.8	59.6	73.4	74.6	74.4	66.1	56.2	36.6	27.9	51.0
1893	16.7	25.4	38.9	51.1	60.2	72.8	78.1	73.3	68.9	55.9	39.6	30.6	51.0
1894	30.4	26.8	46.2	54.5	62.0	75.2	76.5	74.8	67.8	55.4	37.7	34.6	53.5
1895	21.3	20.0	39.4	55.4	64.1	75.0	73.9	74.8	70.7	49.3	39.6	32.9	51.4
1896	30.1	31.8	36.3	60.1	70.2	72.2	75.8	74.9	63.6	52.2	41.4	35.9	53.6
1897	24.9	31.9	41.2	51.2	59.7	71.9	77.3	72.4	72.4	61.5	41.4	27.2	52.8
1898	31.7	32.4	44.1	50.6	62.9	74.4	76.2	74.8	70.3	52.9	38.6	27.7	53.2
1899	27.4	19.9	34.7	54.1	64.4	73.8	75.5	76.8	65.7	60.4	47.1	29.4	52.4
1900	32.1	24.8	35.2	53.9	64.6	71.5	75.8	80.4	69.7	62.6	41.9	32.1	53.7
1901	30.6	23.9	40.2	50.4	61.9	75.2	82.6	75.9	67.5	57.2	39.1	25.7	52.5
1902	27.3	20.2	43.3	50.9	68.0	69.5	76.3	71.7	62.6	57.7	48.9	29.1	52.1
1903	26.7	27.5	45.9	53.3	65.6	66.4	76.1	73.1	66.3	55.7	38.3	24.4	51.7
1904	20.3	23.3	40.5	47.3	62.7	69.7	73.3	71.2	67.8	55.7	43.4	30.2	50.4
1905	21.0	19.0	46.9	52.6	63.7	73.7	73.7	75.8	68.5	54.3	42.5	31.9	51.9
1906	32.9	29.1	30.7	56.2	64.8	70.7	74.1	76.6	71.1	54.5	40.6	32.9	52.8
1907	31.9	30.5	48.5	44.3	57.2	68.5	76.1	73.3	66.3	53.5	40.1	34.3	52.0
1908	30.1	29.2	45.5	52.8	63.8	70.5	75.7	74.4	70.4	55.1	44.2	33.5	53.8
1909	29.4	34.6	40.1	51.4	60.7	72.6	73.2	77.5	65.0	51.5	51.1	21.6	52.4
1910	28.0	26.8	52.3	53.3	57.9	70.1	78.9	72.7	66.9	58.2	37.8	27.5	52.5
1911	30.8	35.3	42.2	50.0	68.8	76.7	76.6	73.6	70.0	54.1	36.8	34.8	54.1
1912	15.1	23.7	31.5	54.1	65.7	68.9	76.2	73.3	68.3	56.8	43.2	34.6	50.9
1913	31.0	26.3	38.0	52.7	64.3	74.9	79.4	79.5	67.9	53.6	48.7	37.3	54.5
1914	34.7	21.8	38.9	57.7	66.0	76.8	79.6	76.5	66.9	58.2	45.4	23.9	53.9
1915	24.2	37.5	35.7	59.0	60.3	69.0	73.1	68.0	68.9	57.1	46.3	30.5	52.5

## TEMPERATURE FOR CENTRAL-SOUTHERN DISTRICT

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Av.
1876	41.2	40.9	40.5	57.7	67.2	73.3	79.2	77.4	66.8	55.6	40.8	24.9	55.5
1877	31.3	36.4	39.1	54.9	63.6	72.7	78.3	75.8	69.7	59.7	42.3	47.9	55.9
1878	35.8	37.3	54.3	60.9	63.5	73.6	81.7	79.0	69.0	56.6	47.1	27.1	57.1
1879	28.3	33.8	48.4	55.1	68.8	74.4	80.6	74.8	64.9	62.3	46.8	32.3	55.9
1880	45.7	40.6	43.2	57.8	70.2	76.0	76.8	77.6	66.2	54.6	32.0	27.1	55.6
1881	21.7	31.2	39.5	59.0	71.6	74.5	81.0	82.5	75.3	61.0	43.7	40.8	56.8
1882	32.1	43.9	47.1	57.6	59.5	73.4	73.8	74.0	68.3	61.0	44.6	32.3	55.6
1883	23.2	31.3	38.4	55.8	61.8	71.9	76.1	72.8	66.9	55.5	49.6	39.5	53.6
1884	23.7	34.2	41.7	52.6	63.5	72.5	77.6	73.3	73.1	61.6	45.0	31.0	54.2
1885	23.5	24.9	39.7	55.6	63.5	72.8	77.2	72.5	67.4	53.7	45.9	38.9	52.9
1886	22.7	33.2	43.4	57.8	67.0	72.5	78.7	78.3	70.6	59.9	45.5	27.2	54.8
1887	26.2	37.7	41.9	55.7	69.9	74.7	81.8	77.6	69.8	52.9	43.9	32.3	55.4
1888	25.8	32.7	40.3	57.0	62.7	74.1	78.7	73.9	63.7	51.8	42.9	36.4	53.3
1889	34.0	31.0	45.9	55.9	62.9	70.1	76.4	72.8	64.9	52.5	40.7	48.7	54.6
1890	39.8	40.4	38.4	56.0	63.1	77.9	77.5	73.4	64.6	54.9	46.7	34.5	55.6
1891	34.6	35.3	37.6	56.3	61.3	75.7	73.6	73.1	71.3	54.7	41.1	41.3	54.7
1892	24.0	39.3	39.6	53.3	63.2	75.6	76.3	75.2	67.6	57.2	39.7	32.3	53.6
1893	21.5	30.6	42.1	55.9	61.1	73.6	79.3	73.6	70.6	55.3	41.5	35.3	53.4
1894	35.1	30.8	47.9	56.2	64.6	77.0	77.9	77.5	70.3	58.4	40.8	37.3	56.1
1895	25.6	23.8	43.1	58.6	65.9	77.4	76.1	77.7	73.1	51.1	42.9	36.9	54.3
1896	34.1	36.3	39.3	63.3	71.7	73.9	78.2	78.1	67.2	54.6	46.2	38.5	56.8
1897	29.7	36.1	45.8	54.5	61.3	73.5	79.2	75.7	73.7	63.6	45.2	33.2	55.9
1898	36.4	35.9	47.8	52.5	66.3	76.4	77.6	76.5	72.5	55.1	41.5	31.6	55.7
1899	31.5	22.9	40.0	56.0	66.9	75.8	77.1	78.5	63.6	61.5	49.0	32.4	55.0
1900	35.6	29.1	41.1	56.5	66.7	73.4	77.7	81.6	73.3	63.5	45.5	36.2	56.7
1901	35.3	29.6	44.3	51.8	64.0	77.8	84.2	76.9	69.4	53.6	41.8	29.2	54.8
1902	31.5	25.3	46.6	53.6	71.2	73.8	78.7	75.3	65.7	60.2	52.1	33.3	55.6
1903	32.7	33.7	49.3	55.6	67.7	68.7	78.8	75.9	69.3	57.5	41.3	29.2	55.0
1904	26.5	30.1	44.6	49.8	64.4	71.7	75.0	73.5	70.2	57.0	44.9	33.9	53.5
1905	25.1	24.1	50.0	55.4	66.8	75.4	74.9	76.3	70.2	56.2	45.6	34.6	54.5
1906	37.2	31.2	35.1	58.6	66.6	73.2	75.7	77.9	73.0	56.8	43.6	37.4	55.6
1907	38.1	34.9	53.5	47.4	60.4	70.7	78.5	74.7	68.7	55.7	43.3	38.3	55.4
1908	34.4	34.6	50.6	56.1	67.1	73.9	77.9	77.7	73.3	57.5	47.9	38.8	57.6
1909	34.6	40.1	44.4	55.2	63.4	75.4	76.4	80.1	68.9	55.7	55.1	26.9	56.4
1910	32.5	30.5	56.6	55.9	61.5	71.6	77.6	74.8	70.9	60.4	41.5	30.8	55.4
1911	36.6	39.5	46.8	54.2	70.3	77.6	77.7	75.9	74.2	57.8	40.0	39.6	57.4
1912	20.8	27.3	36.7	57.6	67.7	69.9	78.2	75.4	70.5	59.1	45.1	36.8	53.8
1913	36.4	31.5	42.8	55.3	65.9	77.2	80.9	81.5	69.9	56.3	51.1	39.6	57.5
1914	33.4	27.9	41.9	55.6	67.6	79.9	82.3	78.5	69.1	59.6	48.0	29.0	56.5
1915	28.8	40.0	38.4	61.5	64.7	71.9	76.2	70.5	72.0	60.1	49.5	34.9	55.7



## TEMPERATURE FOR EXTREME SOUTHERN DISTRICT

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Av.
1876	44.0	42.8	42.7	59.5	68.2	74.5	80.3	78.6	69.4	56.8	43.7	26.4	57.3
1877	33.4	43.5	43.5	57.2	65.4	75.1	78.3	76.5	70.0	61.2	45.5	49.8	58.3
1878	39.2	43.7	57.1	63.2	67.4	73.0	81.7	80.2	69.7	58.7	49.0	32.3	59.6
1879	33.8	37.6	51.6	57.6	70.4	74.1	81.4	75.0	66.2	65.1	51.7	40.8	58.8
1880	50.7	44.8	49.0	61.8	71.7	75.9	78.4	78.2	67.0	57.7	36.8	32.0	58.7
1881	28.2	37.8	45.0	55.2	73.0	77.6	82.2	83.0	75.4	65.4	46.9	45.0	59.5
1882	38.5	49.0	51.9	60.5	63.8	76.2	75.8	75.1	68.9	64.7	48.9	37.6	59.2
1883	32.3	38.8	43.8	59.9	65.2	75.9	77.7	74.8	68.0	60.2	50.0	42.1	57.4
1884	27.9	42.0	47.6	56.2	66.4	73.7	78.2	75.4	74.2	63.3	48.5	36.2	57.5
1885	29.8	31.9	42.5	59.7	65.6	74.5	80.0	76.5	69.3	55.9	48.7	39.0	56.1
1886	25.4	35.1	44.7	58.0	68.7	71.9	78.1	76.8	70.8	59.5	45.3	30.7	55.4
1887	32.6	43.2	47.4	59.9	71.0	75.5	81.5	78.9	71.7	55.7	46.6	36.0	58.3
1888	30.6	36.4	44.1	60.9	65.1	73.2	79.5	75.5	66.0	54.6	46.6	38.3	55.9
1889	37.5	34.8	49.2	59.5	65.6	70.7	77.1	75.0	67.1	56.3	43.4	53.5	57.5
1890	43.9	44.3	42.2	58.9	65.8	79.4	79.8	75.2	66.6	57.7	50.4	38.9	58.6
1891	37.6	41.0	41.7	59.9	63.9	76.8	74.6	74.4	73.0	58.1	44.0	44.7	57.5
1892	28.2	43.3	43.0	57.5	64.9	76.3	76.9	76.5	70.6	60.2	43.1	36.9	56.5
1893	29.9	37.7	48.0	61.1	65.5	75.2	81.7	78.2	72.6	58.8	46.6	40.7	58.0
1894	40.7	36.5	53.3	59.3	66.2	77.6	78.2	79.3	72.7	60.8	45.6	41.2	59.3
1895	31.6	29.1	47.2	60.5	66.9	78.2	77.4	78.6	76.0	54.6	46.9	40.5	57.3
1896	37.1	40.1	43.1	66.4	73.9	75.5	80.6	80.0	69.7	56.5	49.8	41.7	59.5
1897	33.9	40.5	50.1	57.6	64.4	76.0	80.6	78.1	75.7	65.3	48.8	36.9	59.0
1898	41.4	39.8	51.3	54.9	69.2	78.7	79.0	78.6	74.6	56.9	44.9	35.5	58.7
1899	34.8	26.3	43.8	58.7	70.9	77.6	79.1	81.8	70.8	64.1	52.6	35.2	57.9
1900	39.4	33.8	45.6	59.2	69.5	75.3	80.0	83.5	76.9	66.0	48.7	40.5	59.8
1901	39.3	33.1	47.3	54.4	66.5	79.3	85.1	78.1	71.8	61.4	45.5	32.3	57.8
1902	34.6	27.8	48.9	56.7	73.2	75.9	81.1	78.0	68.1	62.5	54.6	36.9	58.2
1903	35.8	36.9	52.6	57.6	69.3	70.3	80.9	78.5	72.3	59.8	44.3	33.1	57.6
1904	32.3	34.5	48.3	52.1	66.4	74.2	76.6	76.0	72.6	59.0	48.0	37.7	56.5
1905	27.4	27.5	52.9	58.2	69.4	76.7	76.3	78.1	72.2	58.5	48.7	36.8	56.9
1906	39.3	34.7	38.1	61.3	67.9	75.2	75.7	78.2	75.1	58.3	46.2	39.4	57.4
1907	41.9	37.5	56.5	50.2	61.9	72.5	80.2	77.6	71.1	58.1	45.6	39.4	57.7
1908	35.6	37.5	53.6	58.7	68.7	75.4	78.8	78.5	74.0	58.9	51.3	41.6	59.4
1909	35.6	41.6	46.2	56.4	64.9	76.4	78.2	80.6	69.5	58.1	56.7	30.1	57.9
1910	35.1	32.9	58.0	57.0	63.3	71.9	78.5	76.1	73.5	61.5	43.8	33.2	57.1
1911	40.4	42.3	49.5	57.0	71.0	78.5	78.4	76.3	76.1	59.9	42.6	41.1	59.4
1912	24.8	31.1	40.4	58.9	67.9	70.5	78.9	76.3	71.9	60.9	47.0	38.2	55.6
1913	39.5	35.1	45.6	56.5	67.5	77.9	80.6	83.1	70.9	57.7	53.6	40.9	58.9
1914	40.7	32.7	43.7	56.7	68.0	80.8	82.2	78.2	70.3	60.6	49.5	31.8	57.9
1915	32.6	41.5	39.3	62.3	67.0	73.2	77.2	71.4	72.7	62.0	51.8	37.8	57.4



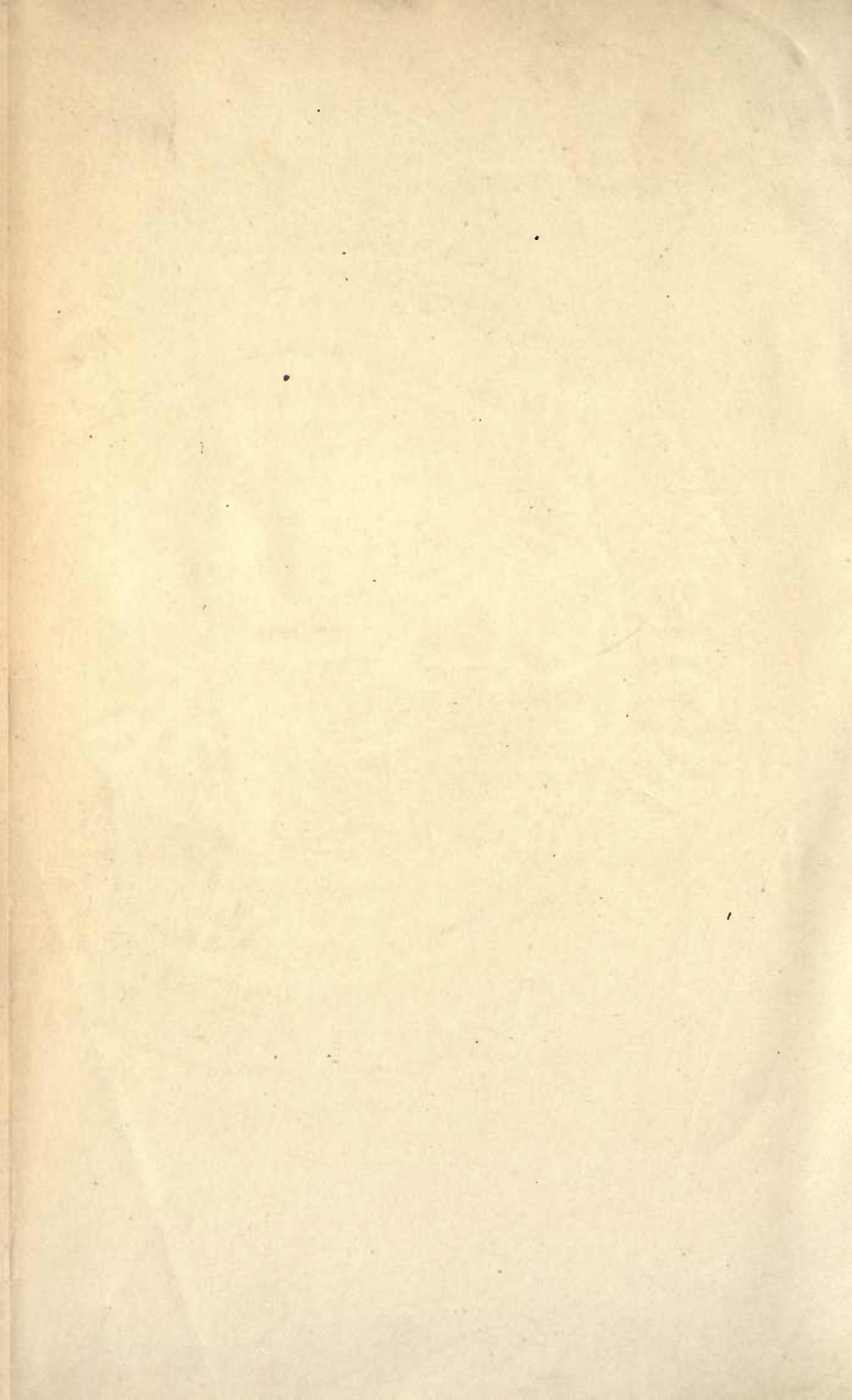






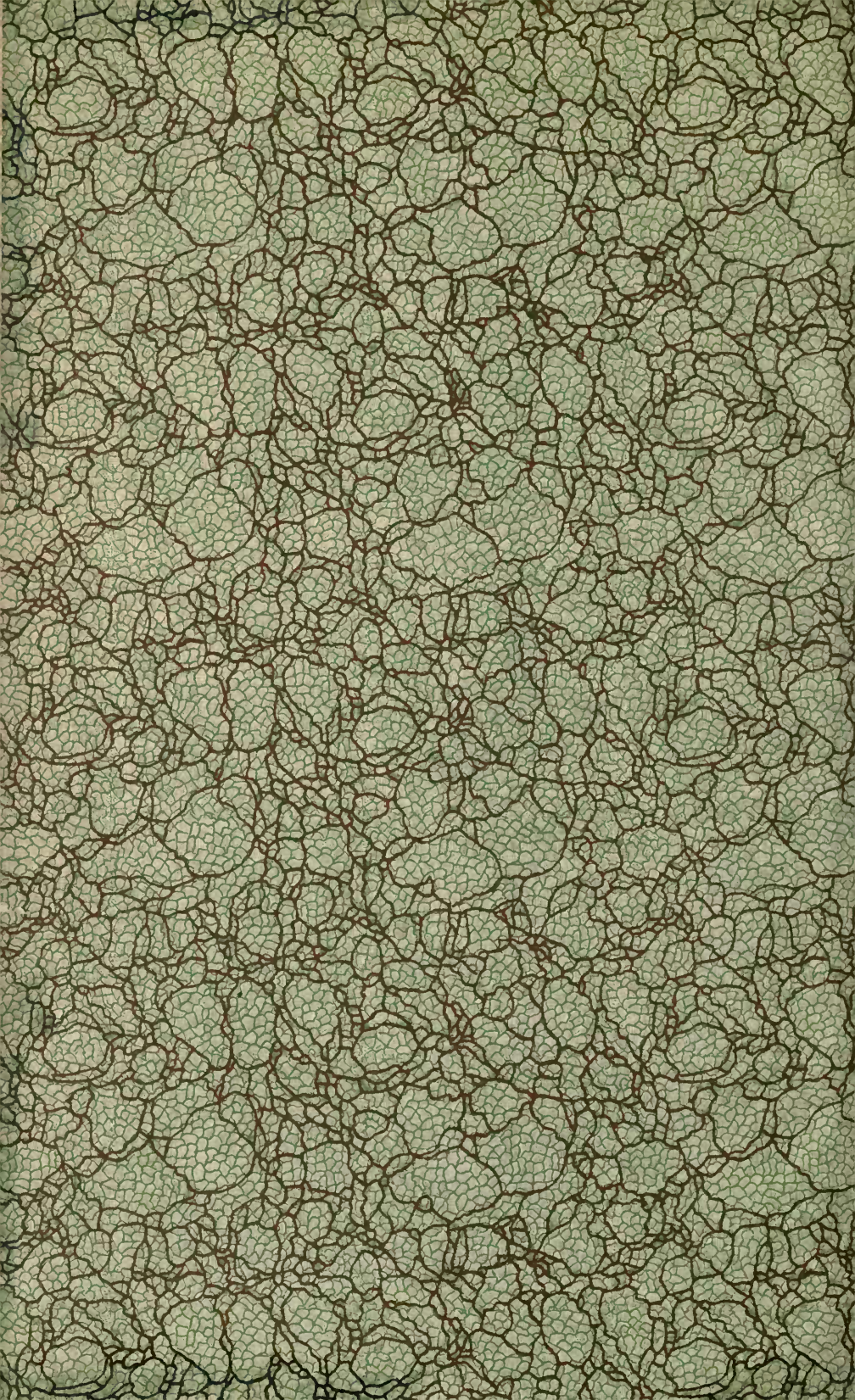




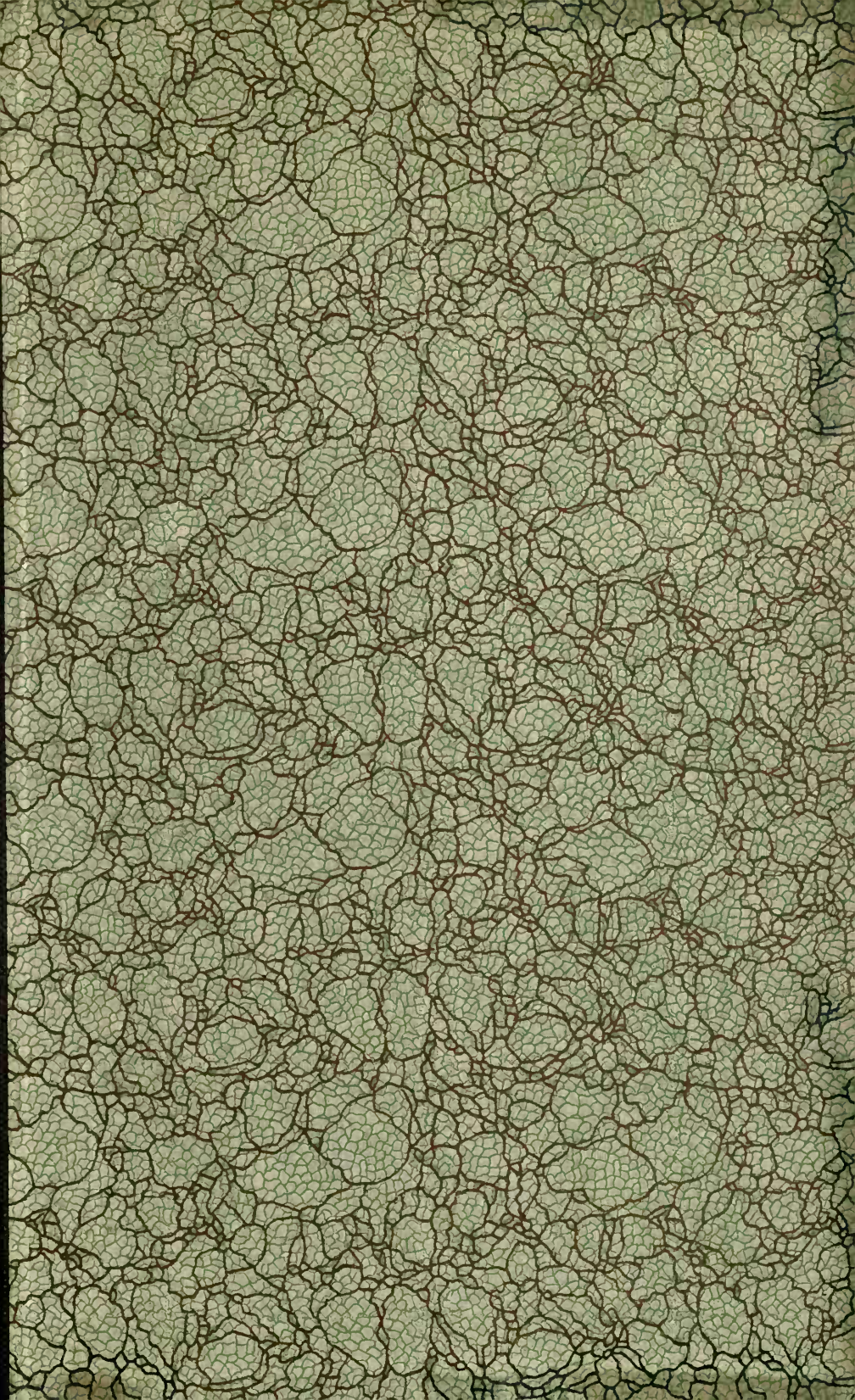














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